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General Information

Important setting instructions

Starting in offline mode, you get to the parameter menu by pressing the prog button. There you can set/alter the different parameters of the printer and activate/deactivate options.

Many Parameters provide a range within the setting can be changed with a standard step width. By this step width, the setting is changed, if the Cut-(Apply-) or Feed button is pressed once (Min. firmware: 5.31).
➠ The step width can be increased ten times, if the Online button is pressed simultaneously (Cut+Online or Feed+Online).

CAUTION!

➠ Wait at least 10 seconds between switching the device off and on again, otherwise any modified parameter settings are not saved.

➠ With some parameters, false settings can result in the device being damaged (e. g. if the print head temperature is too high). Data and/or print orders are also deleted during formatting and with other settings.

➠ Pay attention to the corresponding notes in the following description to ensure that no damage occurs!

Area of application

The description counts for all devices listed in the headline of this document. All status printouts and parameters are described in the same order as they *may appear* in the parameter menu of the respective printer.

➠ Not all of the parameters appear in each of the listed printers!
At the beginning of each parameter description can be found information about the availability of the parameter:

64-xx ALX 92x DPM

➠ ALX 92x/DPM: Only with installed USI board.

Fig. 1: At the beginning of each parameter description, the availability of the parameter is specified: Between the two lines is a list of the concerned printer types; the remark below (arrow) quotes further conditions.

If a parameter appears in the menu of a certain printer type or not, depends on the following, which can be read from this bar:

- The *printer type:*
  Printers, which have the parameter available in the parameter menu, are listed between the lines. Example (see fig. 1): 64-xx, ALX 92x, DPM.
- The configuration with *options* and/or certain *parameter settings*:
  Example (see fig. 1): The parameter only appears in the menu of an ALX 92x or DPM, if the device is equipped with an USI board. If the remark is not assigned to a special printer type, it is valid for all listed printers.

Firmware

This description applies to all printers which are equipped with a firmware version 5.33 (for 64-xx Gen. 3, PEM, PM 3000, DPM Gen. 3, ALX 92x Gen. 3).

❍ The paragraph *Overview Parameter Menues* in this topic section contains an overview of all available parameters of the respective printer.

Operating the parameter menu

The illustrations on the following pages clarifie the operating principle of the parameter menu. The return path shown on the left of the screen, called up using the Prog. button, also applies for parameters in the middle of the screen.

Setting values

The setting of a parameter always follows this scheme:

1. Select the parameter.
2. Press the Online button.
3. Set the parameter to the intended value by pressing the Cut or Feed button.
4. Confirm by pressing the Online button.

Example

Setting the parameter PRINT PARAMETERS > Material type to punched material.

	Action	Display	Note
		OFFLINE 0 JOBS	Initial state: off-line mode.
1.	Press Prog button.	PRINT INFO	
2.	Press Cut button.	PRINT PARAMETERS	
3.	Press Online button.	PRINT PARAMETERS Print speed	First menu item of the "PRINT PARAMETERS" menu.
4.	Press Cut button several times, up to the display:	PRINT PARAMETERS Material type	Parameter selected.
5.	Press Online button.	Material type Endless	
6.	Press Feed button.	Material type Punched	Setting the parameter to the intended value by pressing the Cut or Feed button.
7.	Press Online button.	PRINT PARAMETERS Material type	Confirm with Online button.
8.	Press Prog button 2x.	OFFLINE 0 JOBS	"Way back" by pressing the Prog button.

Tab. 1:Example for setting a parameter: Changing the material type setting.

Parameter Menu 64-xx

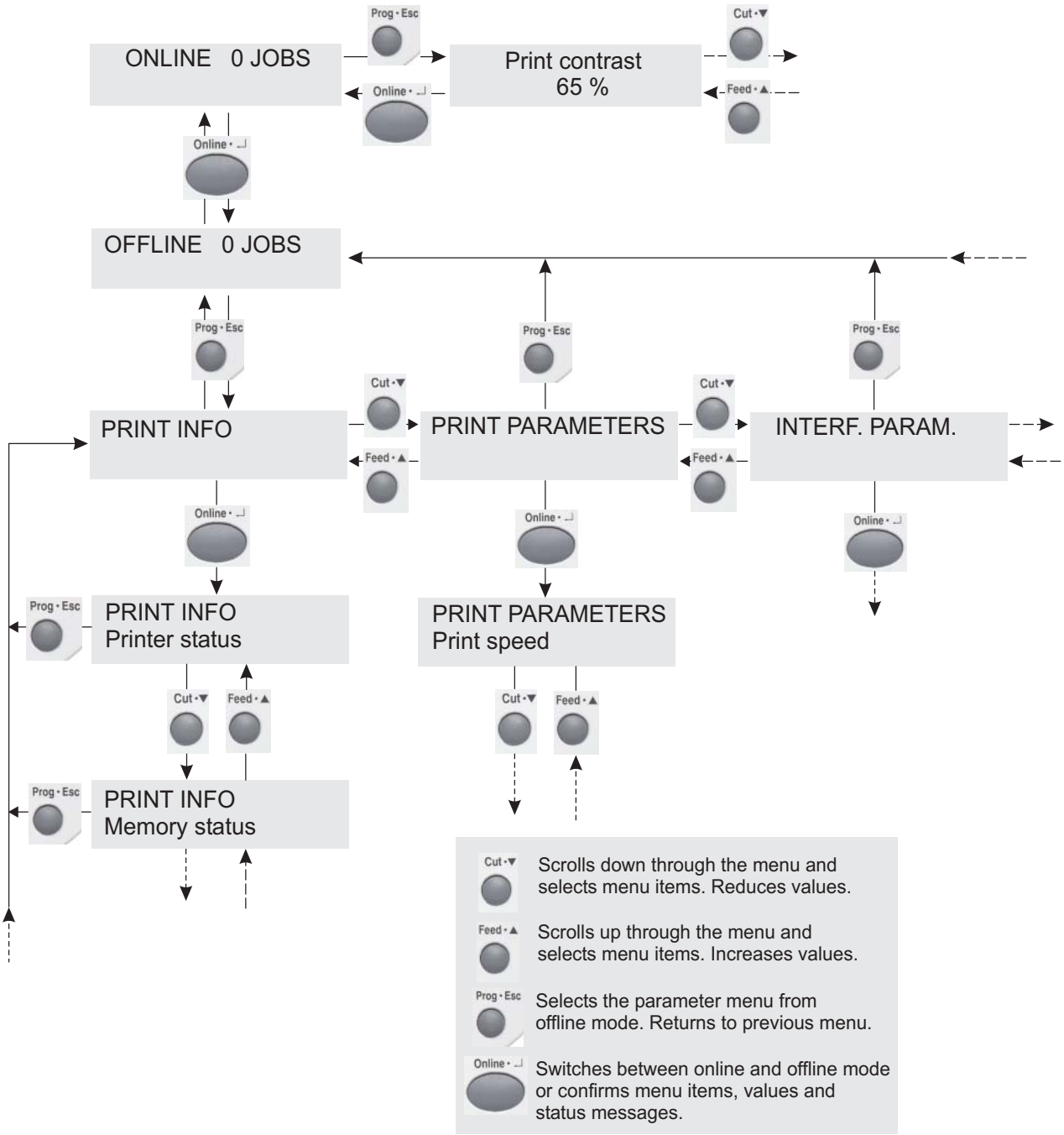
ONLINE 0 JOBS
Prog • Esc
Online • ⏎
Print contrast
65 %
Cut • ▼
Feed • ▲
OFFLINE 0 JOBS
PRINT INFO
PRINT PARAMETERS
INTERF. PARAM.
PRINT INFO
Printer status
PRINT INFO
Memory status
PRINT PARAMETERS
Print speed
Scrolls down through the menu and selects menu items. Reduces values.
Scrolls up through the menu and selects menu items. Increases values.
Selects the parameter menu from offline mode. Returns to previous menu.
Switches between online and offline mode or confirms menu items, values and status messages.

Fig. 1: Guideline through the parameter menu. Start into it by pressing the Prog button in off-line mode.

Parameter Menu DPM / PEM / ALX 92x/PM 3000

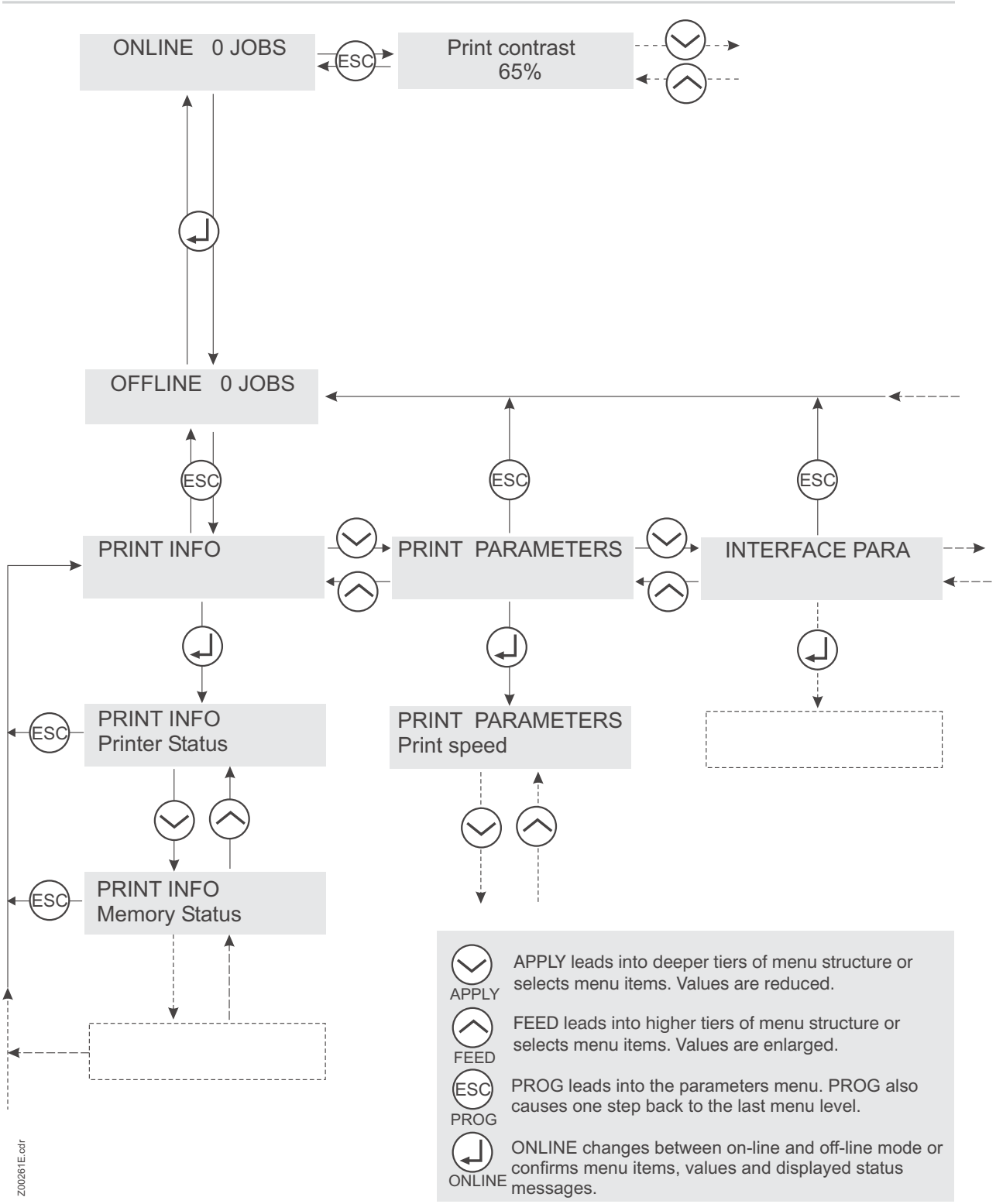

Fig. 2: Functional diagram of the DPM / PEM / ALX 92x/PM 3000 parameter menu. You get into the menu by pressing the Prog key in Offlline-Mode.

Overview Parameter Menus

Understanding the Parameter Overviews

The charts in the following show all of the parameters implemented in the printer firmware. Some parameters are only visible in the parameter menu under specific preconditions. These parameters are provided with a gray background and a digit at the right column edge. The digit refers to a footnote describing the precondition under which the parameter is visible.

PRINT INFO	
Printer status	
Memory status	
Font status	
Flashdata status	9
Service status	
Dottest endless	
Dottest punched	
Reference label	
RFID status	22

PRINT PARAMETERS	
Print speed	
Feed speed	
Material type	
Material length	
Material width	
Print direction	
Punch offset	
Bar code Multip.	
Tradit. imaging	
UPC plain-copy	
EAN Readline	
EAN sep. lines	
Rotated Barcodes	
Dispense Mode	14
Dispensposition	14
Cut mode	6
Cut speed	6
Cut position	6
Double cut	6
Rewind direction	5
X – print offset	
Y – print offset	
Punch mode	
Punch level	12

INTERFACE PARA	
> EASYPLUGINTERPR	
Interface	
Spooler mode	
Printer ID No.	
Spooler size	
Offline mode	
Interface delay	
> COM1 PORT	
Baud rate	
No. of data bits	
Parity	
Stop bits	
Data synch.	
Frame error	
> COM2 PORT	11
Baud rate	11
No. of data bits	11
Parity	11
Stop bits	11
Data synch.	11
Serial Port Mode	11
Frame error	11
> COM4 PORT	
Baud rate	

(Interf. Para. continued)	
No. of data bits	
Parity	
Stop bits	
Data synch.	
Frame error	
> CENTRONICS	
PnP function	
> NETWORK PARAM.	
IP Addressassign	
IP Address	
Net mask	
Gateway address	
Ethernet speed	
Port address	
MAC address	
SNMP agent	
SNMP password	13
FTP server	
FTP password	13
WEB server	
WEB admin passw.	13
WEB supervisor p.	13
Time client	
Time server IP	32
Sync interval	32

(Interf. Para. continued)	
DHCP host name	
WLAN SSID	31
WLAN WEP	31
WLAN default key	31
WLAN 64Bit key 1	31
WLAN 64Bit key 2	31
WLAN 64Bit key 3	31
WLAN 64Bit key 4	31
WLAN 128Bit key 1	31
WLAN 128Bit key 2	31
WLAN 128Bit key 3	31
WLAN 128Bit key 4	31
WLAN com quality	31
WLAN signal lev.	31
> OPTIONS	
Remote display	
OLV option	
RFID option	18
StandAlone Input	
> DRIVEASSIGNMENT	
Drive C	
Drive D	
Drive E	
Drive F	
Drive G	

SYSTEM PARAMETER	
Foil end warning	
Foil warn stop	
Display mode	14
Dispense counter	14
Autom. dot check	
Early dottest	15
Latest dottest	15
Dottestarea from	15
Dottestarea to	15
Print Interpret.	
Character sets	
Character filter	
Light sens. type	
Head-sensor dist	13
Sens. punch-LS	
Ribbon autoecon.	
Ribbon eco. limit	
Feed mode	
Turn-on mode	
Error reprint	
EasyPlug errors	
Single job mode	
Head resistance	
Temp. reduction	
Voltage offset	
Expand Logo	3
Miss. label tol.	

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

(System Param. continued)

Gap detect. mode	
Foil stretching	13/21
Max InitFeedback	2
Mat. end detect.	
Periph. device	
Singlestartquant	
Dispensing mode	14
Application mode	14
Start mode	
Start source	14
Dispensing edge	14
Head disp dist	20
Transport mode	14
External signal	
Signal edge	
Apply key	13
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print Info Mode	
Reprint function	
Language	
Keyboard	
Signal / buzzer	
Access authoriz.	
Realtime clock	

APPLICATOR PARA	25
Applicator type	25
Application mode	25
Start print mode	25
Start error stop	25
APSF sensor res.	25
Start delay	25
Dwell time	25/27
Blow on time	25/28
Restart delay	25
Position timeout	25

OLV PARAMETERS	26
Verify mode	26
Ref Decode	26
Decodability	26
Modulation	26
Defects	26
Edge Contrast	26
Rmin/Rmax	26
Symbol Contrast	26
PCS	26
R (white)	26
R (black)	26
Ratio	26
ANSI Symbolgrade	26
Dist. head-beam	26
Cancel. printing	26
Reprint quantity	26
OLV Mode	26

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Interface type	7
Start delay	7
Start print mode	7
End print mode	7
Reprint signal	7
Ribbon signal	7
Material signal	7
Feed input	7
Pause input	7
Start error stop	7
Internal inputs	7
Apply mode	19

MLI PARAMETERS	10
Version	10
Darkness	10
Control Prefix	10
Format Prefix	10
Delimiter Char	10
Label Top	10
Left Position	10
Manual Calibrate	10
Resolution	10
Error Indication	10
Error Checking	10
305 DPI Scaling	10
Image Save Path	10
Command ^PR	10
Command ^MT	10
Label Invert	10
Command ^JM	10

I/O BOARD PARA	11
Start delay	11
Start print mode	11
Reprint Signal	11
Feed	11
Pause input	11
Error output	11
Error polarity	11
Status output	11
Status polarity	11
End print mode	11

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

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Data blocks del.	9
EasyPl. file log	30
Log files delete	30
RFID stat. del.	22

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Head exchange	13
Roller exchange	13
Cutter exchange	13/6
Serv. data reset	13
Head dot test	
Head step tune	13
EasyPlug monitor	13
EP Monitor Mode	13
Head adjust	
Sensor adjust	13
Sensor test	
Cutter test	
Matend tolerance	
Feedadjust label	
Feed adjust	
Foil feed adjust	13
Punch y calibr.	13
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Headvo. adj. 28 V	13/17

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Print test	
Rewinder setup	5

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> MODULE FW VERS.
System version
System revision
System date
Bootloader
uMon
Feed driver
Foil driver
Head driver
Peripheraldriver 29
Rewinder 29
USI interface 29

> OPERATION DATA	
Serv. operations	
Headnumber	
Roll number	
Cutter number	6
Head run length	
Roll run length	
Cuts on knife	6
Tot. mat. length	
Tot. foil length	
Total cuts	6
Total head moves	
Head strobes	
Head temperature	

(Service Data cont.)	
Foil diameter	
Operation time	

> POWERSUPPLYDATA	
Type	
PS temperature	
Version	29
Serial number	29
Operation time	29
Total on time	29

> CPU BOARD DATA	
CPU identifier	
PCB revision	
FPGA version	
MAC address	
Serial number	
Production date	
PCB part number	
Board part numb.	
Manufacturer	13
Work place	13
Company name	13

(Service Data cont.)	
> DISPLAY DATA	
Display version	
Display SerialNr	
Remote disp. vers.	24
Remote disip. #	24

> MEMORY DATA	
Ram memory size	
Flash mem size	
CompactFlash	30
Space for Jobs	
Max. Labellength	
Default values	

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

DPM/PEM/ALX 92x Parameters

FW 5.33

PRINT INFO
Printer status
Memory status
Font status
Service status
Dottest endless
Dottest punched
Reference label
RFID status 22

PRINT PARAMETERS
Print speed
Feed speed
Material type
Material length
Material width
Print direction
Punch offset
Bar code Multip.
Tradit. imaging
UPC plain-copy
EAN Readline
EAN sep. lines
Rotated Barcodes
Dispense Mode
Dispensposition
X – print offset
Y – print offset
Punch mode
Punch level 12

INTERFACE PARA
> EASYPLUGINTERPR
Interface
Spooler mode
Printer ID No.
Spooler size
Offline mode
Interface delay

> COM1 PORT
Baud rate
No. of data bits
Parity
Stop bits
Data synch.
Frame error

> COM2 PORT 11
Baud rate 11
No. of data bits 11
Parity 11
Stop bits 11
Data synch. 11
Serial Port Mode 11
Frame error 11

> COM4 PORT
Baud rate
No. of data bits

(INTERFACE PARA cont.)
Parity
Data synch.
Stop bits
Frame error

> CENTRONICS
PnP function

> NETWORK PARAM.
IP Addressassign
IP Address
Net mask
Gateway address
Ethernet speed
Port address
MAC address
SNMP agent
SNMP password 13
FTP server
FTP password 13
WEB server
WEB admin passw. 13
WEB supervisor p. 13
Time client
Time server IP 32
Sync interval 32
DHCP host name
WLAN SSID 31

(INTERFACE PARA cont.)
WLAN WEP 31
WLAN default key 31
WLAN 64Bit key 1 31
WLAN 64Bit key 2 31
WLAN 64Bit key 3 31
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> OPTIONEN
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> DRIVEASSIGNMENT
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Display mode
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Early dottest 15
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Light sens. type
Head-sensor dist. 13
Sens. punch-LS
Ribbon autoecon.
Ribbon eco. limit
Feed mode
Turn-on mode
Error reprint
EasyPlug errors
Single job mode
Head resistance
Temp. reduction
Voltage offset

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

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Miss. label tol.	
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Modulation	26
Defects	26
Edge Contrast	26
Rmin/Rmax	26
Symbol Contrast	26
PCS	26
R (white)	26
R (black)	26
Ratio	26
ANSI Symbolgrade	26
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Reprint quantity	26
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Start print mode	7
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Pause input	7
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Format Prefix	10
Delimiter Char	10
Label Top	10
Left Position	10
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Resolution	10
Error Indication	10
Error Checking	10
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Image Save Path	10
Command ^PR	10
Command ^MT	10
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Start delay	11
Start print mode	11
Reprint Signal	11
Feed	11
Pause input	11
Error output	11
Error polarity	11
Status output	11
Status polarity	11
End print mode	11

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

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Roll number	
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Roll run length	
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Tot. foil length	
Total head moves	
Head strobes	
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Dispensing cycl.	
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(Service Data cont.)

> MEMORY DATA
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Flash mem size
Space for Jobs
Max. Labellength
Default values

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

PM 3000 Parameters

FW 5.33

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Material width	
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Tradit. imaging	
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Data synch.	
Frame error	

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Anzahl Datenbits	
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WLAN signal lev.	31
WLAN com quality	31
WLAN signal lev.	31

> OPTIONS
Remote display
OLV option
StandAlone input

> DRIVEASSIGNMENT
Drive C
Drive D
Drive E
Drive F
Drive G

SYSTEM PARAMETER	
Cover open error	
Foil end warning	
Foil warn stop	
Autom. dot check	
Early dottest	15
Latest dottest	15
Dottestarea from	15
Dottestarea to	15
Print Interpret.	
Character sets	
Character filter	
Light sens. type	
Head-sensor dist.	13
Sens. punch-LS	
Ribbon autoecon.	
Ribbon eco. limit	
Feed mode	
Turn-on mode	
Error reprint	
EasyPlug errors	
Single job mode	
Head resistance	
Temp. reduction	
Voltage offset	
Expand Logo	3
Miss. label tol.	
Gap detect. mode	
Foil stretching	13

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

PM 3000 Parameters

FW 5.33

(System Param. cont.)

Foil stretching	13
Max InitFeedback	8
Mat. end detect.	
Periph. device	16
Singlestartquant	
Start mode	
External signal	
Signal edge	
Apply key	13
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print info mode	
Reprint function	
Language	
Keyboard	
Signal / buzzer	
Access authoriz.	
Realtime clock	
Material feed	

OLV PARAMETERS	26
Verify mode	26
Ref Decode	26
Decodability	26
Modulation	26
Defects	26
Edge Contrast	26
Rmin/Rmax	26
Symbol Contrast	26
PCS	26
R (white)	26
R (black)	26
Ratio	26
ANSI Symbolgrade	26
Dist. head-beam	26
Cancel. printing	26
Reprint quantity	26
OLV Mode	26

DP INTERFACE
Interface type
Start delay
Start print mode
End print mode
Reprint signal
Ribbon signal
Material signal
Feed input
Pause input
Start error stop
Internal inputs
Apply mode

MLI PARAMETERS	10
Version	10
Darkness	10
Control Prefix	10
Format Prefix	10
Delimiter Char	10
Label Top	10
Left Position	10
Manual Calibrate	10
Resolution	10
Error Indication	10
Error Checking	10
305 DPI Scaling	10
Image Save Path	10
Command ^PR	10
Command ^MT	10
Label Invert	10
Command ^JM	10

I/O BOARD PARA	11
Start delay	11
Start print mode	11
Reprint Signal	11
Feed	11
Pause input	11
Error output	11
Error polarity	11
Status output	11
Status polarity	11
End print mode	11

SPECIAL FUNCTION	
Printer type	13
Printhead type	13
Sensor type	13
Default values	13
Command Sequence	13
Delete job	
Delete spooler	
Factory settings	
Parameter to CF	30
EasyPl. file log	30
Log files delete	30
RFID stat. del.	

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

SERVICE FUNCTION	
Service	13
Head exchange	13
Roller exchange	13
Cutter exchange	13/6
Serv. data reset	13
Head dot test	
Head step tune	13
EasyPlug monitor	13
EP Monitor Mode	13
Head adjust	
Sensor adjust	13
Sensor test	
Cutter test	
Matend tolerance	
Feed label	
Feed adjust	
Punch y calibr.	13
Foil feed adjust	13
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Scanner test	
CompactFlashTest	
Send test	
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System revision	
Bootloader	
uMon	
Feed driver	
Foil driver	
Head driver	
USI interface	
> OPERATION DATA	
Serv. operations	
Headnumber	
Roll number	
Cutter number	6
Head run length	
Roll run length	
Cuts on knife	6
Tot. mat. length	
Tot. foil length	
Total cuts	6
Total head moves	
Head strobes	
Head temperature	
Foil diameter	
Operation time	

(Service Data cont.)

> POWERSUPPLYDATA	
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PS temperature	
Version	29
Serial number	29
Standby+On time	29
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> CPU BOARD DATA	
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PCB revision	
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Serial number	
Production date	
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> DISPLAY DATA	
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Display serialnr	
Remote disp. vers.	24
Remote disip. #	24

(Service Data cont.)

> MEMORY DATA
Ram memory size
Flash mem size
CompactFlash
Space for Jobs
Max. Labellength
Default values

1. Only 64-xx dispenser with 4“ printhead **2.** Only with 64-xx Dispenser and if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back **9.** Only with at least one data block stored in the flash memory **10.** Only with activated MONARCH LANGUAGE INTERPRETER™ **11.** Only with I/O board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **16.** For details read parameter description **17.** Only with 64-04/05/06 **18.** Only with installed RFID option **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only with SYSTEM PARAMETERS > Dispensing edge = „User defined“ **21.** Nicht mit 64-xx Spender **22.** Only with an activated RFID option **23.** With PEM only **24.** With connected remote display only **25.** With Applicator Interface only **26.** Only OLV option activated **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA **29.** Availability depends on device configuration **30.** Only with a CF card inserted **31.** Only with a WLAN CF card inserted **32.** Only if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“

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WLAN 64Bit key 4 64
WLAN com quality 65
WLAN default key 64
WLAN signal lev. 66
WLAN SSID 63
WLAN WEP 63
Work place. 142
X - Printadjust 49
Y – Printadjust 49

PRINT INFO

➠ Printing of individual reports can be deactivated for certain options (e. g. for the infeed option).

A material width of 100 mmis necessary to print the reports. The status printout is approx. 200 mm long.

Printer status

64-xx	ALX 92x	DPM	PEM	PM 3000

A protocol can be printed to get an overview of customer-specific parameter settings (three pages, see [1]).

➠ Which parameters are listed, depends on the printer type.

Systemversion	: V2.46 Jan 18 2002 [R2.46 H2.46]
Printer type	: Avery 64-05

Printer Parameter Menu

Print speed	: 8 Inch/s
Feed speed	: 6 Inch/s
Materialtype	: Punched
Materiallength	: 206.0 mm
Materialwidth	: 65.0 mm
Punch offset	: 0 mm
Bar code multip.	: * 1
UPC plain-copy	: In line
EAN Readline	: Standard
Cut mode	: Real 1:1 mode
Cut speed	: 3 Inch/s
Cut position	: 0.0 mm
Double cut	: 0.0 mm
X - Printadjust	: 0.0 mm
Y - Printadjust	: 0.0 mm
Punchmode	: Automatic

Printer Interface Menu

Easyplug Interpreter

Interface	: Centronics
Spooler mode	: Mult. print jobs
Printer ID no.	: 1
Spooler size	: 64 KBytes

COM1 Port Parameter

Baud rate	: 9600 Baud
No. of data bits	: 8
Parity	: None
Stop bits	: 1 Bit
Data synch.	: RTS/CTS

COM2 Port Parameter

Function Option	: None
Baud rate	: 9600 Baud
No. of data bits	: 8
Parity	: None
Stop bits	: 1 Bit
Data synch.	: RTS/CTS

Printer system menu

Foil end warning	: 25.4 mm
Autom. dot check	: Off
Print emulation	: Easyplug
Character sets	: IBM
Character filter	: Chars > = 20Hex
Light sens. type	: Punched
Sens. punch-LS	: 50 %
Ribbon autoecon.	: Disabled
Ribb. eco. limit	: 10.0 mm
Turn-on mode	: Online
Error reprint	: Enabled
Single-job mode	: Disabled
Head resistance	: 1277 Ohm
Temp. reduction	: 20 %
Voltage offset	: 0 %
Punch search qt.	: 2
Mat. end detect.	: Transparent
Periph. device	: Cutter
Singlestartquant	: 1
Start mode	: Edge
Start source	: Foot switch
External signal	: Disabled
Signal edge	: Falling edge
Print contrast	: 30 %
Ram disk size	: 512 KBytes
Font downl. area	: 256 KBytes
Free store size	: 512 KBytes
Language	: English
Signal / buzzer	: On
Access authoriz.	: Deactivated

Dispenser Interface

Interface type	: USI interface
Start delay	: 0.0 mm
Start print mode	: Pulse falling
End print mode	: Mode 0
Reprint signal	: Disabled
Ribbon signal	: Enabled
Material signal	: Disabled
Feed input	: Standard
Pause input	: Standard
Start error stop	: Off
Internal inputs	: Enabled

Internal Options

Default values	Standard
Realtime Clock	14.02.2001 16:02
Com2 Option	Installed

[1] Three pages printer status printout with a 64-05 with firmware version 2.46.

Listed items:

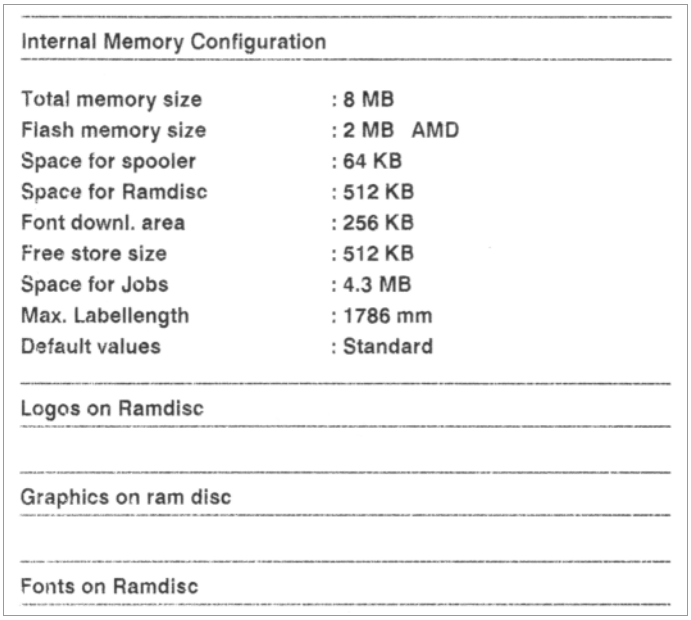
- Systemversion:
  - Shows the installed firmware version as well as the release date of this version.
  - Firmware version: R = firmware RISC processor, H = firmware H8 processor.

- Printer type:
  – Shows the printer type, which has been set using parameter SERVICE FUNCTIONS > printer type (e.g. Avery 64-04)
  – "USA" displayed after the printer type indicates that the USA font is loaded.
  – "8DOT" displayed after the printer type indicates that the 8-Dot emulation is loaded.
- Printer Parameter Menu
  Shows the setting of the parameters in the PRINT PARAMETERS menu.
- Printer Interface Menu
  Shows the setting of the parameters in the INTERFACE PARA menu.
- Printer system menu
  Shows the setting of the parameters in the SYSTEM PARAMETERS menu.
- Dispenser Interface
  Shows the setting of the parameters in the DP INTERFACE menu.
- Internal Options
  – Default values: Shows the values which are used in case of a factory reset (Standard or Default). See parameter SPECIAL FUNCTION > Default Values.
  – Realtime Clock: Shows the set time and date, if a realtime clock is installed. In case of a too low battery, the line "Battery empty" is added.
  – 2. com port: Shows if an additionall serial Interface is installed (not supported).

Memory status

64-xx	ALX 92x	DPM	PEM	PM 3000

A memory protocol can be printed to provide an overview of the distribution of the available memory capacity (one page).


Internal Memory Configuration
Total memory size : 8 MB
Flash memory size : 2 MB AMD
Space for spooler : 64 KB
Space for Ramdisc : 512 KB
Font downl. area : 256 KB
Free store size : 512 KB
Space for Jobs : 4.3 MB
Max. Labellength : 1786 mm
Default values : Standard
Logos on Ramdisc
Graphics on ram disc
Fonts on Ramdisc

[2] Example of a memory Status printout.

Listed items:

- Internal Memory Configuration

❍ See paragraph > MEMORY DATA / on page 143.

- Logos on RAM disc
- Graphics on RAM disc
- Fonts on RAM disc

❍ See Plug-in card manual 🗋, topic section „Application“, chapter „Compact-Flash card“.

Font status

64-xx	ALX 92x	DPM	PEM	PM 3000

Print samples of all installed characters, bar codes and line samples (several pages).

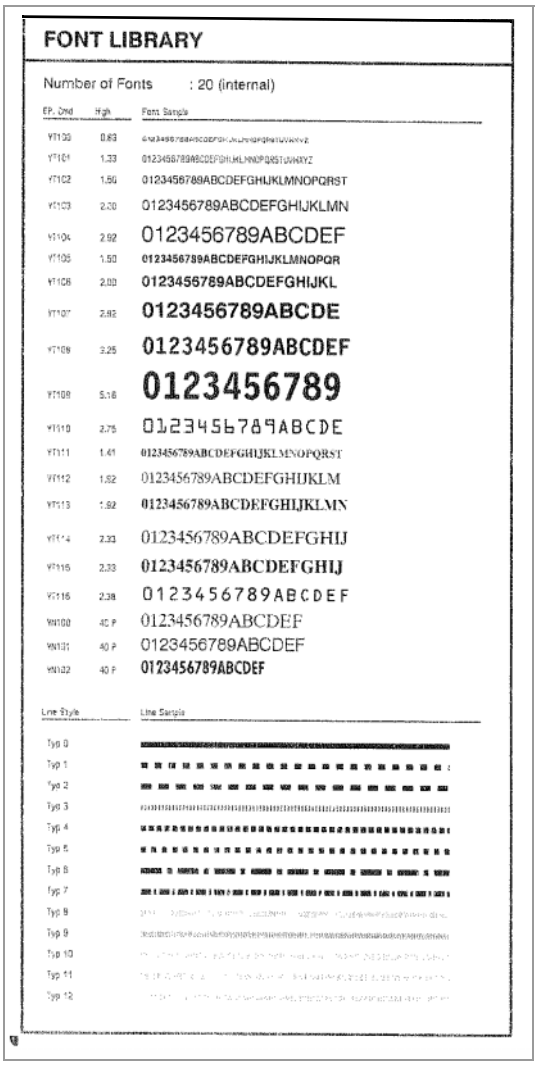
Page „Font Library“ shows a list of the internal fonts and line styles.

Internal Fonts

➜ Use the Easy-Plug commands listet in the first column of the report (e.g. #YT100), to print using the appropriate font.

❍ Easy Plug commands: Refer to the Easy Plug Manual, topic section Description of Commands 🗋.

❍ For a list of all characters contained in the internal fonts, refer to the User Manual, topic section Internal Fonts 🗋.



[3] Print sample of internal fonts and line styles.

Internal Line Styles

➜ Use the line style number (fist column) with one of the Easy Plug commands #YL or #YR to print lines in the matching style.

❍ Easy Plug commands: Refer to the Easy Plug Manual, topic section Description of Commands 🗋.

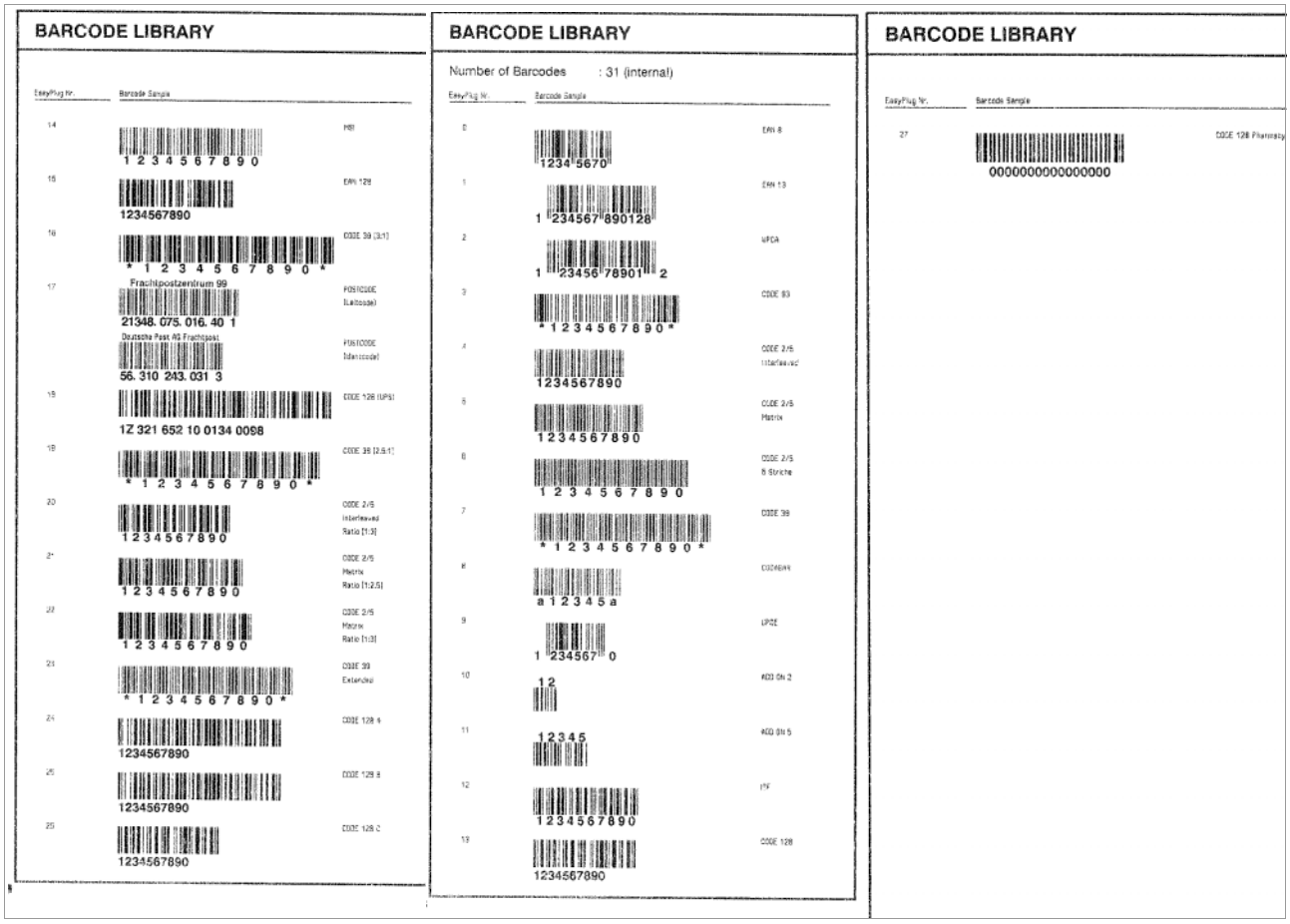
➠ Additionally, the following line styles are available:

– 13: Checked pattern with 3 dot edge length
– 14: Checked pattern with 1 mm edge length
– 15: Checked pattern with 5 mm edge length

➠ The line width has to be defined as a multiple of the edge length of the checked pattern!

Internal bar codes

The pages titled „Barcode Library“ show print samples of the internal bar codes (see [4], [7]).



[4] Print sample of internal, onedimensional bar codes.

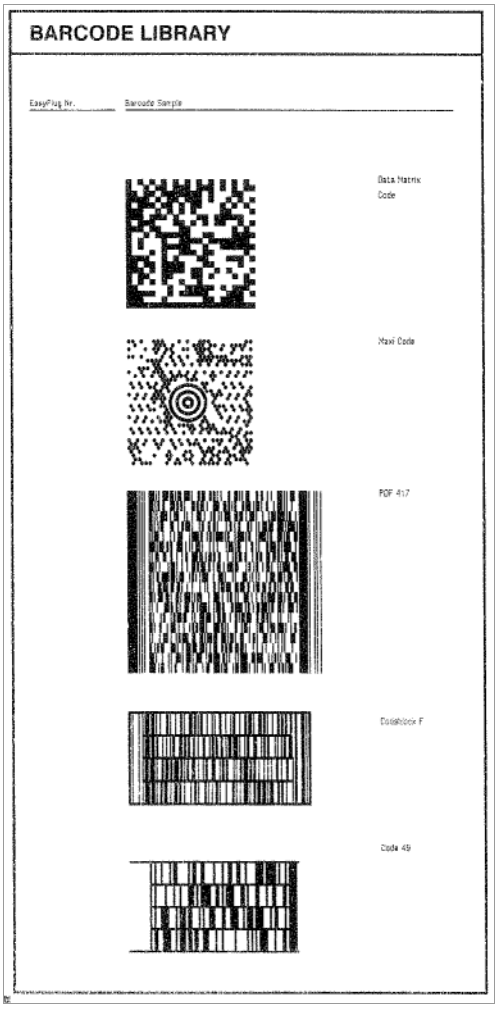
- *Onedimensional bar codes* are printed with the Easy-Plug command #YB.

❍ See manual Easy-Plug, topic section Description of Commands 🗋.

- *Two-dimensional bar codes* are printed by means of special Easy-Plug commands:

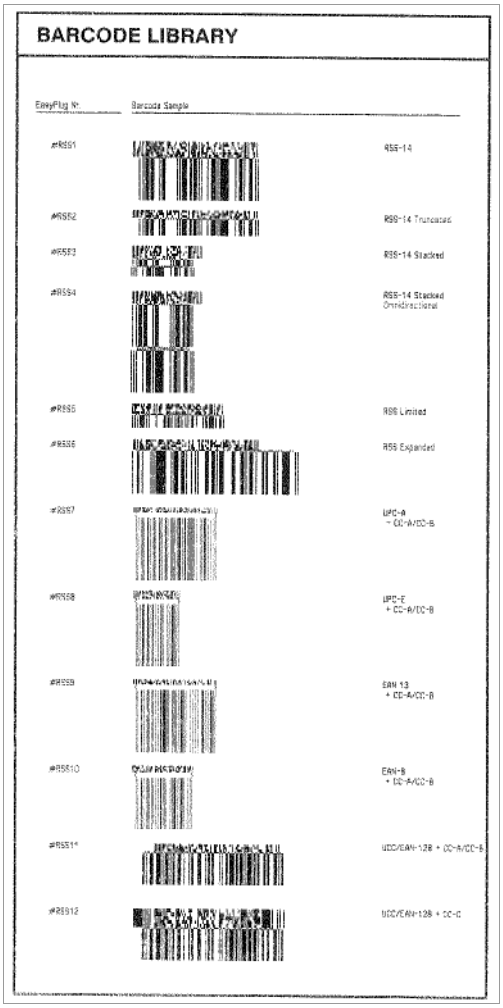
Easy-Plug command	Bar code
#IDM	Data Matrix Code
#MXC	Maxi Code
#PDF	PDF 417
#CBF	Codabar F
#CFN	Code 49

[2] Internal, two-dimensional bar codes.



[5] Print sample of internal, twodimensional bar codes.

- *GS1 DataBar* (formerly RSS) and *Composite Component* (CC) bar codes are printed by means of the Easy-Plug command #RSS. The bar code is determined by the number in the first column of the subsequent table. This number is added to the command as a parameter.



[6] Print sample of internal RSS and CC bar codes.

Flashdata status

64-xx	ALX 92x	DPM	PEM	PM 3000

Prints a list of all fonts stored in the flash memory.

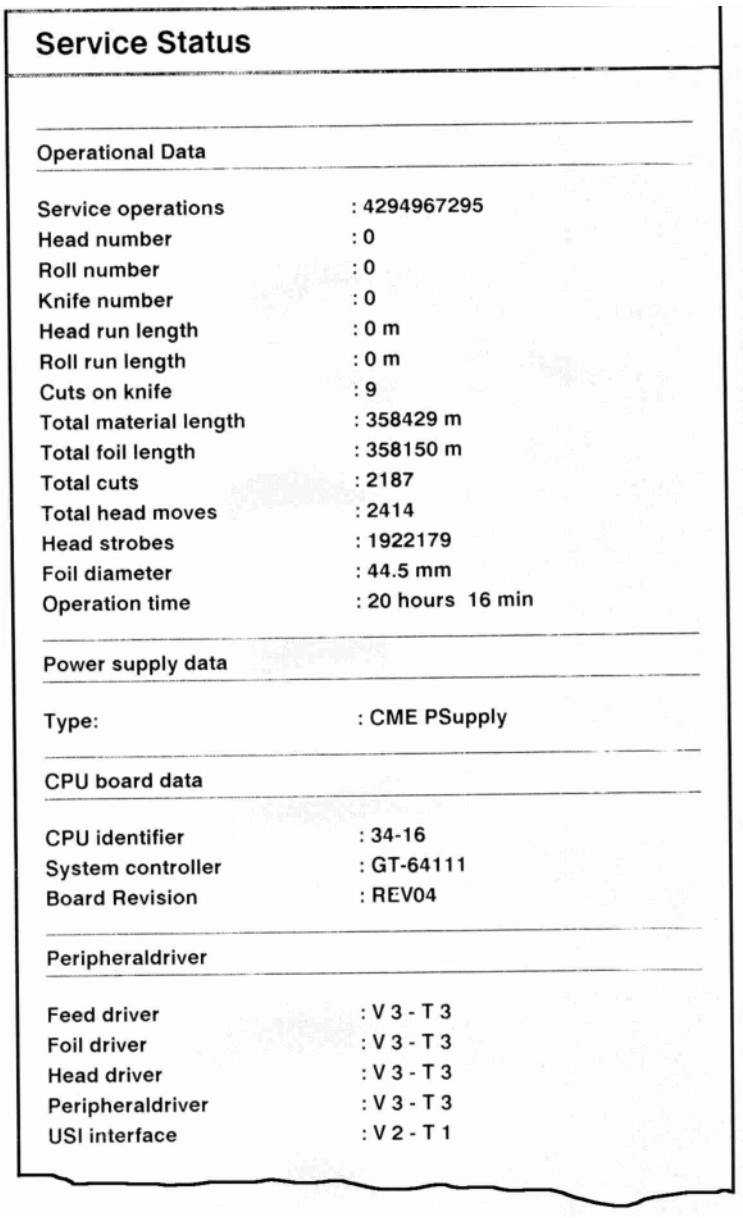
❍ For details see topic section Internal Fonts 🗋, paragraph „Customized fonts“.

Service Status

64-xx	ALX 92x	DPM	PEM	PM 3000

Print the Service status report to read about operation time, no. of services, no. of exchanged parts and other matters of service interest (one page).

Use the parameter SERVICE FUNCTION > Serv. data reset, to set all the counters to zero, which are listed on the printout.



Service Status

Operational Data

Service operations	: 4294967295
Head number	: 0
Roll number	: 0
Knife number	: 0
Head run length	: 0 m
Roll run length	: 0 m
Cuts on knife	: 9
Total material length	: 358429 m
Total foil length	: 358150 m
Total cuts	: 2187
Total head moves	: 2414
Head strobes	: 1922179
Foil diameter	: 44.5 mm
Operation time	: 20 hours 16 min

Power supply data

Type:	: CME PSupply

CPU board data

CPU identifier	: 34-16
System controller	: GT-64111
Board Revision	: REV04

Peripheraldriver

Feed driver	: V 3 - T 3
Foil driver	: V 3 - T 3
Head driver	: V 3 - T 3
Peripheraldriver	: V 3 - T 3
USI interface	: V 2 - T 1

[7] Example of a Service Status printout.

- For information on the operational data on the service status printout refer to paragraph > OPERATION DATA / on page 136.
- For information on the power supply data on the service status printout refer to paragraph > POWERSUPPLYDATA / on page 140.
- For information on the CPU board data on the service status printout refer to paragraph > CPU BOARD DATA / on page 141.

❍ For information on the peripheral driver data on the service status printout refer to paragraph > MODULE FW VERS. / on page 135.

Dottest endless

64-xx ALX 92x DPM PEM PM 3000

Dottest for application with endless label stock.

This function prints a pattern which enables trained personnel to check the adjustment as well as the function of the printhead.

Only in supervisor mode:

If no dot check has been proceeded (by calling the parameter SERVICE FUNCTION > Head dot test) since powering on the printer, a test is started before printing the status report. Depending on the result, one of the following messages is printed on the bottom margin of the label:

- "All print dots o.k."
- "x print dots defective"

➠ 64-08 printers don´t proceed this dot check automatically, because this would be very time consuming. The printout shows the message:

- "Head Dot Test not yet executed"

If a dot test has already been performed since powering on the printer, the above showed messages are also displayed at 64-08 printers after proceeding a "Dottest endless“ or „Dottest punched".

❍ For information about the supervisor mode, refer to parameter SYSTEM PARAMETERS > Access authoriz..

Test pattern

The „Dottest endless“ or „Dottest punched“ prints a pattern consisting of 33 rows filled with vertical lines on the upper label area. All lines have a constant distance of 4 dot. With every new row, the line pattern is shifted one dot. The resulting line-pattern repeats every four rows.
The test pattern shows missing dots clearly as white vertical lines running through the pattern.

The lower label area is filled with testpatterns, which are kept close to those used by Kyocera. The patterns are useful for printout comparison.

The bars underneath the test pattern allow the adjustment of the different zero lines.

Dottest punched

64-xx ALX 92x DPM PEM PM 3000

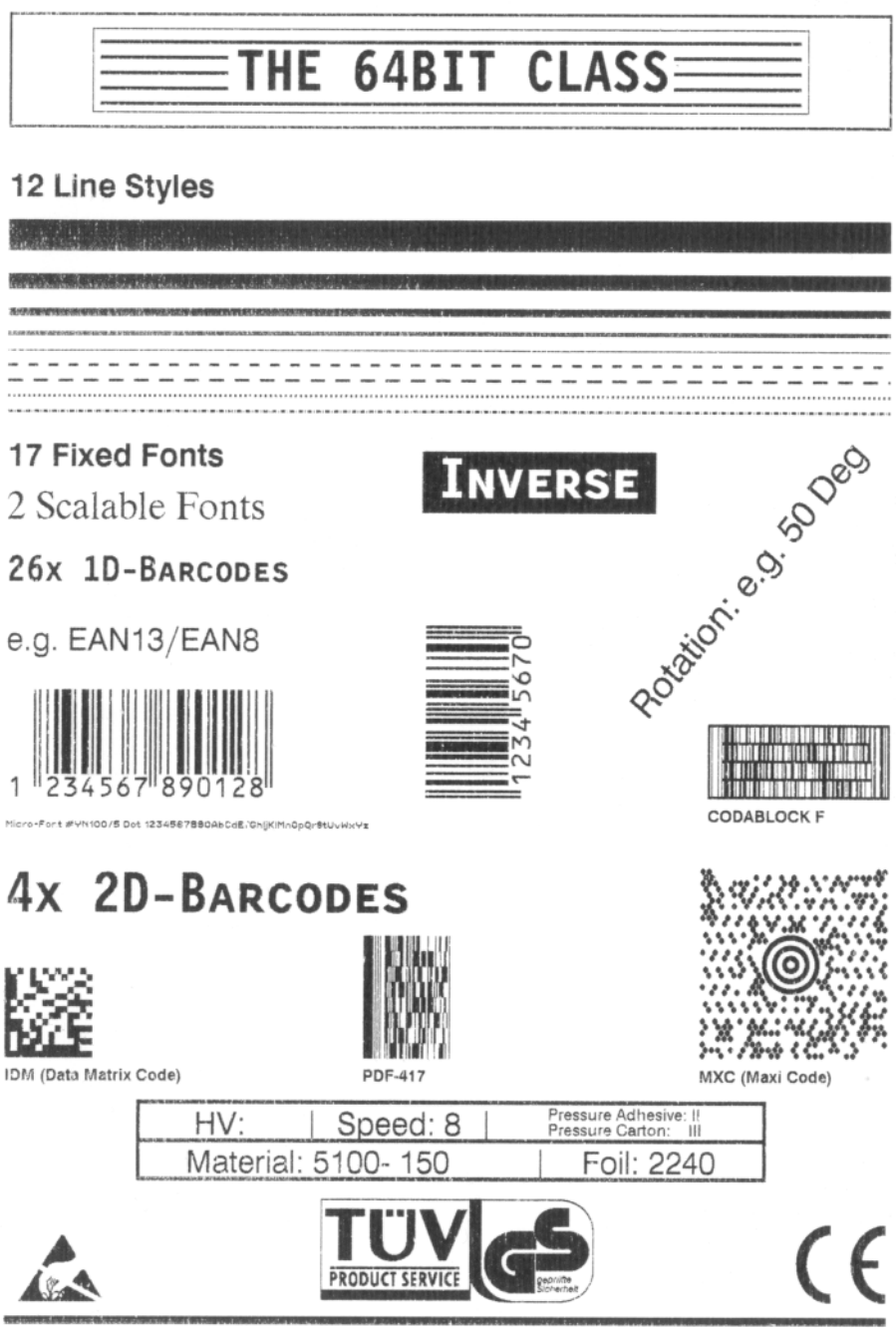
Dottest for application with punched material.

❍ See parameter Dottest endless / on page 32.

Reference label

64-xx	ALX 92x	DPM	PEM	PM 3000

Prints a label with some examples of barcodes, fonts, logos... just try out!



[8] Example of a Reference label printout.

RFID Status

➠ Only with activated RFID option.

64-xx	ALX 92x	DPM	PEM	PM 3000

Prints a status printout with RFID specific data:

RFID Status

System version	:	V4.00 Jun 23 2005 [R4.00 PE2.50 H4.00Q]
Printer type	:	Avery 64-05
Nr CMD retries	:	3
Nr invalid tags	:	3

Statistics

Nr of Tags	:	7043
Nr. invalid tags	:	2788
Total Nr. SELECT	:	7803
Invalid SELECT	:	16%
Total Nr. READ	:	1189
Invalid READ	:	29%
Total Nr. WRITES	:	5483
Invalid WRITE	:	37%
Rate READ	:	45
Rate WRITE	:	46

[3] Beispiel eines Ausdrucks INFO AUSDRUCKEN > RFID Status*.*

PRINT PARAMETERS

Print speed

64-xx ALX 92x DPM PEM PM 3000

The print speed (material feed) can be adjusted according to the ribbon and material combination being used in order to optimise the contrast depth and the density of the print image.

x inch/s (mm/s)

Setting range: see table; Unit interval: 1 inch/s (5 mm/s)
Default setting: 8 inch/s

➠ DPM and ALX 92x: Print speed can be set optionally in Inch/s or mm/s. The unit is selected with SYSTEM PARAMETERS > Speed unit.

Printer	Print speed in mm/s	Print speed in Inch/s
64-04/05		2-16
6406		2-14
64-08		2-9
ALX 924/925, DPM 4/5“, PEM 4/5“	50-400	2-16
ALX 926, DPM 6“, PEM 6“	50-300	2-12

[4] The setting range of the print speed depends on the printer type.

x Inch/s

Setting range: see table; Unit interval: 0,2 inch/s;
Default setting: 8 Inch/s

Feed speed

64-xx ALX 92x DPM PEM PM 3000

The feed speed can be increased between print periods hereby reducing the total print time, particularly with long labels with a minimum printed surface.

Setting:
The value for the feed speed should not be set too high for print applications with long calculating units (e. g. consecutive numbering). This can help to avoid alternating between abrupt braking to 0 (zero) and acceleration to print speed.

➠ When altering the print speed, the feed speed is equal to the print speed. If a different feed speed is required, this must be set again.

x inch/s

Setting range: 2 to 12 inch/s; Unit interval: 1 inch/s
Default setting: 8 inch/s

(only DPM / PEM / ALX 924)
Machines of the DPM / PEM / ALX 924 type provide the option to change the displayed unit between Inch/s and mm/s.

❍ Setting is done using the parameter SYSTEM PARAMETERS > Speed unit.

x Inch/s
x mm/s

Setting range: 2 to 12 inch/s or 51 to 305 mm/s;
Unit interval: 0,2 inch/s or 5 mm/s; Default setting: 8 Inch/s

Material type

64-xx ALX 92x DPM PEM PM 3000

Definition of the materials used. A distinction is made between reel material and gapped material (hole gaps, self-adhesive material with register gaps). The detected gap position corresponds to the start of the label.

➠ The value is overwritten by the appropriate Easy Plug command when sending label formats.

Endless — If material is to be used without gaps.

Punched — If material is to be used with gaps (default setting).

Material length

64-xx ALX 92x DPM PEM PM 3000

The material length (label length) is the distance between the gaps, measured from the front edge (beginning) of a label to the front edge of the next label.

➠ The value is overwritten by the appropriate Easy Plug command when sending label formats.

xxx mm — Setting range: 5 mm to "max. length entry"; Unit interval: 0.1 mm
Default setting: 100 mm

Maximum length entry: dependent on the print head width and memory configuration.

Material width

64-xx ALX 92x DPM PEM PM 3000

Zero position of the left border. If the printer is working in line-printer mode, alterations can be made in millimetre units.

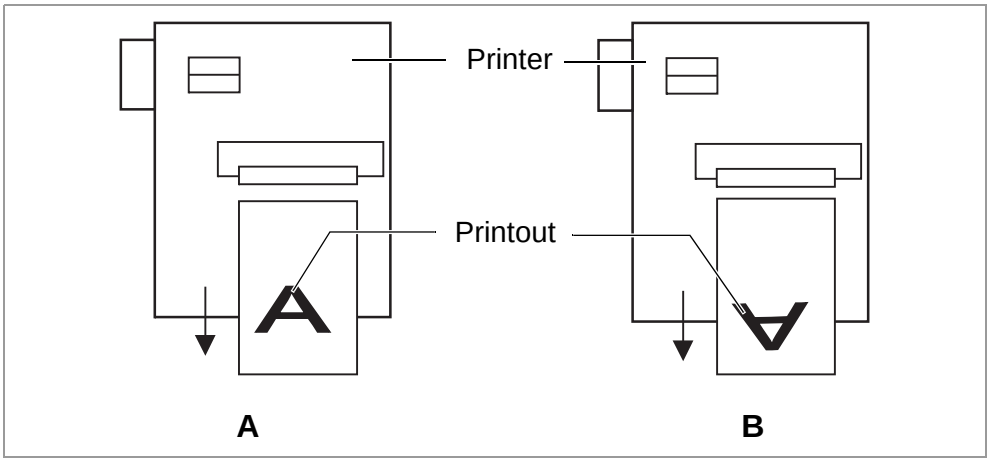
xxx mm — Setting range: "min. width" to "max. width"; Unit interval: 0.1 mm
Default setting: 100 mm

- Min. width: dependent on the printer type
- Max. width: dependent on print head width and memory configuration.

❍ For detailed material width information, refer to topic section „Specifications“.

Print direction

64-xx	ALX 92x	DPM	PEM	PM 3000



[9] Orientation of the printout „Foot first“ (A) or „Head first“ (B).

Foot first (Default) Orientation of the printout according to [9A].

Head first Orientation of the printout according to [9B]. Mind the following:

➠ Define the „true“ label length (without gap length) in parameter PRINT PARAMETERS > Material length. If the label gap is wider than 5 mm, the parameter SYSTEM PARAMETERS > Miss. label tol. must be set to a value more than zero.

➠ The distance between material base line and the first printable dot is 1 mm. To keep this distance while printing „head first“, the material width must be calculated as follows::

$b_{Mat} = b_{Bp} - 2mm$, with

b_{Mat}: Material width
b_{Bp}: Backing paper width

Punch offset

64-xx ALX 92x DPM PEM PM 3000

The zero position can be determined offset in millimetre units from the detected gap position.

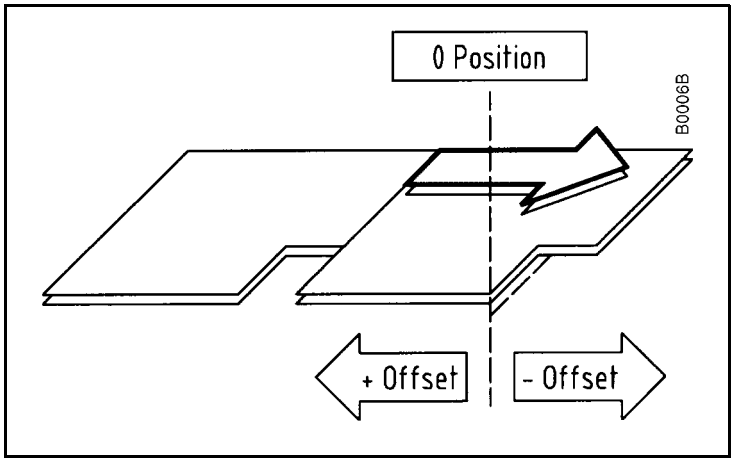
➠ The value is overwritten by the appropriate Easy Plug command when sending label formats.

xxx mm

Setting range: -8 to +max. label length; Unit interval: 0,1 mm
Default setting: 0 mm

Maximum offset in feed direction: -8 mm

Minimum offset against feed direction: +max. label length



[10] Positive and negative offset in relation to the feed direction (arrow).

Bar code multip.

64-xx ALX 92x DPM PEM PM 3000

Bar code height scaling factor

Increases the bar code height defined in the label layout (Easy-Plug) by multiplication by a factor of 1 to 10.

x

Setting range: 1 to 10; Unit interval: 1; Default setting: 1

The printed bar code height calculates starting with the value defined in the label layout multiplied by the scaling factor x.

Tradit. Imaging

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ In production mode only.

Up to firmware version x.31, the barcode height was calculated with the formula:

$$Barcodehight_{Print} = (Barcodehight_{Layout} + 1) \cdot x$$

with x = PRINT PARAMETERS > Barcode Multi.

By doing so, the printed barcode height in millimeters was by 1 higher than the value defined in the layout (1 --> 2 mm, 2 --> 3 mm, etc.)[1)].

From firmware version x.31 on, the printed barcode is exactly as high in millimeters, as the value in the layout is (1 --> 1 mm, 2 --> 2 mm, etc.)[1)].

No — New height calculation (1 --> 1 mm, 2 --> 2 mm, etc.) is applied (default setting).
The plain copy line is printed with OCR-B font.

Yes — Setting for customers with print layouts based on the *old* height calculation scheme.
The plain copy line of the barcodes EAN8, EAN13, UPC-A and UPC-E is printed with the same fonts, which older printer types like TTK or TTX x50 have used.

UPC plain-copy

64-xx	ALX 92x	DPM	PEM	PM 3000

The position of the first and last digit in the plain-copy line - underneath the bar code - can be adjusted as required.

Raised — First and last digit of the UPCA or first digit with the UPCE are raised (default setting).

In line — All digits in the decoded line are in line under the code.

EAN Readline

64-xx	ALX 92x	DPM	PEM	PM 3000

<> Signs — Readline enclosed in "<>" signs or terminated by a ">"-Sign (EAN 13).

Standard — Readline without "<>" or ">" signs (default).

1) Assumed that PRINT PARAMETERS > Barcode Multi. = „1“.

EAN sep. lines

64-xx ALX 92x DPM PEM PM 3000

EAN separation lines. Parameter for controlling of EAN or UPC barcodes if they are printed without readline.

With readl. only (Default) The seperation bars at the beginning, end and in the middle of the barcode are only long, if the barcode is printed with a readline.

Always long The seperation bars at the beginning, end and in the middle of the barcode are always long, regardless if the barcode is printed with or without readline. The position of the barcode is the same as with the readline option switched on.

Rotated Barcodes

64-xx ALX 92x DPM PEM PM 3000

Improves the readability of rotated (90° and 270°) bar codes.

Normal „Normal“ printing without a special processing of rotated bar codes.

Optimized (Default setting) The line and gap widths of rotated bar codes are modified in order to improve their readability.

Dispense Mode

64-xx ALX 92x DPM PEM PM 3000

➠ 64-xx: Dispenser version only.

Governs the run of the print-dispense procedure.

➠ The ribbon autoeconomy function can only be used in "Real 1:1 Mode"!

Dispense only With this setting, the printer can be used as a mere dispenser without processing print jobs. Set the material length before you use this function.

❍ See parameter PRINT PARAMETERS > Material length.
After calling "Dispense only", the printer restarts; afterwards, the following is displayed:

Dispense only Labels	0	0 = Number of dispensed labels.

The parameters menu can be activated as usual after having switched to the offline mode by pressing the Online button two times.

Normal 1:1 Mode

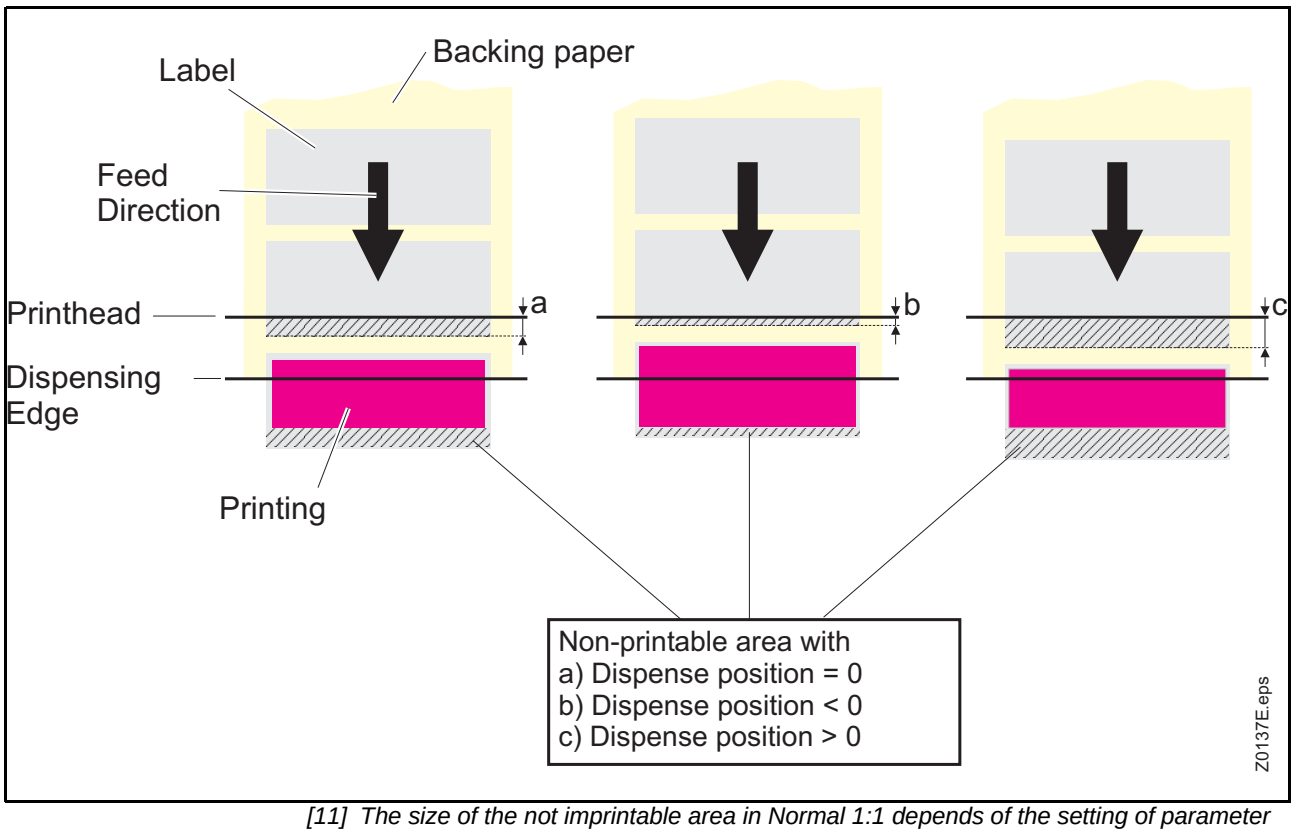
- The printer cannot print on the whole label surface. A stripe at the label beginning stays unprinted.
- The label is being dispensed while printing.
- The output volume is at its maximum level.

➠ The width of the unprintable stripe is calculated as follows:
Distance print line to dispensing edge + Dispense position (see [5])

Dispensing edge	Distance print line to dispensing edge
long	39.8 mm
short	24.2 mm

[5] A stripe of the width "distance print line to dispensing edge + dispense position" can not be printed in "Normal 1:1 Mode.

❍ Also refer to parameter PRINT PARAMETERS > Dispense position.
❍ A graphic can be found under PRINT PARAMETERS > Cut mode > Normal 1:1 mode.



[11] The size of the not imprintable area in Normal 1:1 depends of the setting of parameter "SYSTEM PARAMETERS/ Dispense Position".

Batch Mode

- The printer can print the whole label surface.
- Dispensing of the label takes place during printing. Printing of the next label is interrupted until the label is completely dispensed.
- The output volume is at its maximum level.

➠ The *Batch mode* is optimised for printing and dispensing at high speeds. Due to this, it is not possible to use all features awaliable in modes *Normal 1:1* or *Real 1:1*. Also consider, that printing data must be available on time and in sufficient quantity.

➠ The following Job/Parameter-combinations must not be used:

- Jobs with counter fields
- Jobs with variable fields
- SYSTEM PARAMETER > Dispensing mode must be set to "fast".
- The USI reprint function is not supported. DP INTERFACE > Reprint signal must be set to "deactivated".
- Foil save

❍ A graphic can be found under PRINT PARAMETERS > Cut mode > Batch mode.

Real 1:1 Mode

(Default setting)

- The printer can print the whole label surface.
- After dispensing a label, the beginning of the next label is drawn back under the print head.
- The output volume is lower than in *Batch Mode* or *Normal 1:1 Mode*.

❍ A graphic can be found under PRINT PARAMETERS > Cut mode > Real 1:1 mode.

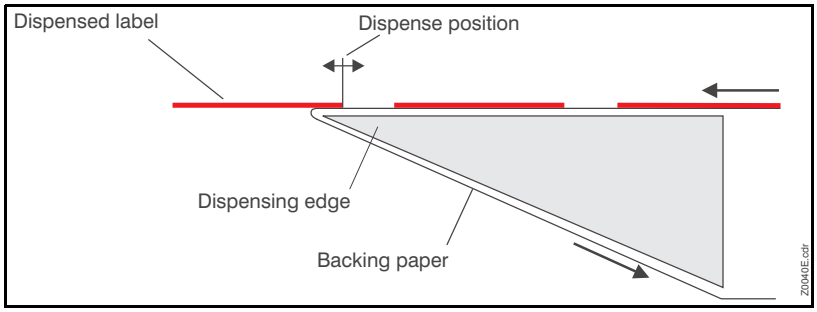
Dispenseposition

64-xx ALX 92x DPM

➠ 64-xx: Dispenser version only.

Dispense position

Adjusts the dispense position in or against the feed direction. Depending on the set dispense position, the dispensed label sticks to the backing paper with a more or less wide strip (Fig. 11). The required width of this strip depends on the further processing.



[12] Dispense position (= stopp position) of the dispensed label.

x.x mm

Setting range: -30.0 to +20.0 mm; Unit interval: 0,1 mm; Default setting: -6.0 mm

Cut mode

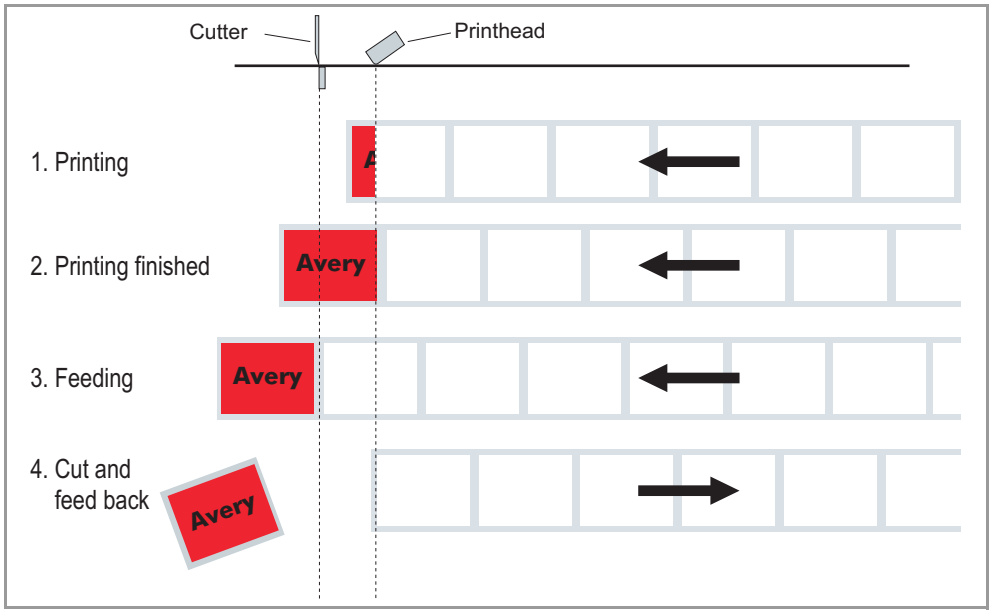
64-xx	PM 3000

➠ Only with mounted and activated cutter (SYSTEM PARAMETERS > Periph. device = „Cutter“).

This is where the procedure for the label output and cut is defined.

Real 1:1 mode

The whole surface of the label is printable. The label is pushed forward to the cutter for cutting. After the cut, the beginning of the next label is drawn back under the print head. This reduces the output volume (in relation to a certain time).



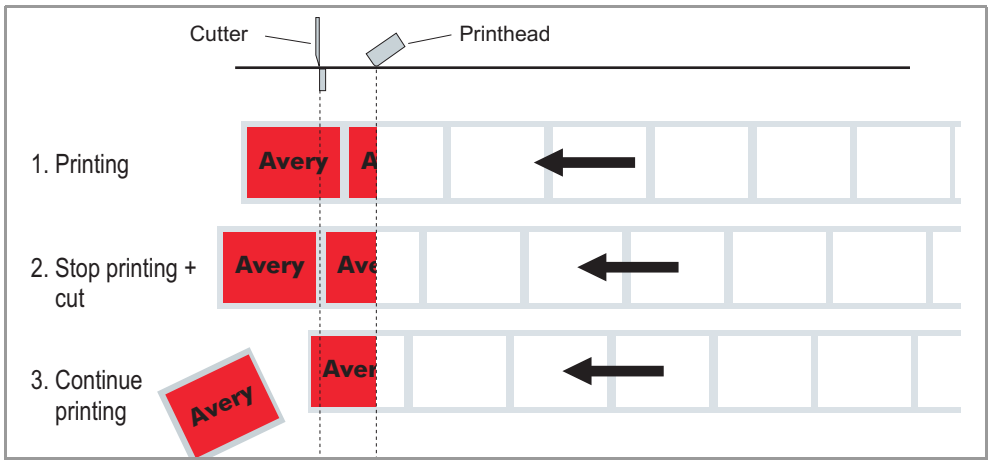
[13] Printing process (schematic) in „Real 1:1 Mode“.

Batch mode

The whole surface of the label is printable. Cutting takes place during printing. This can result in brief interruptions within the print zone of the following label. The output volume is at its maximum level.

Requirements for the batch mode are:

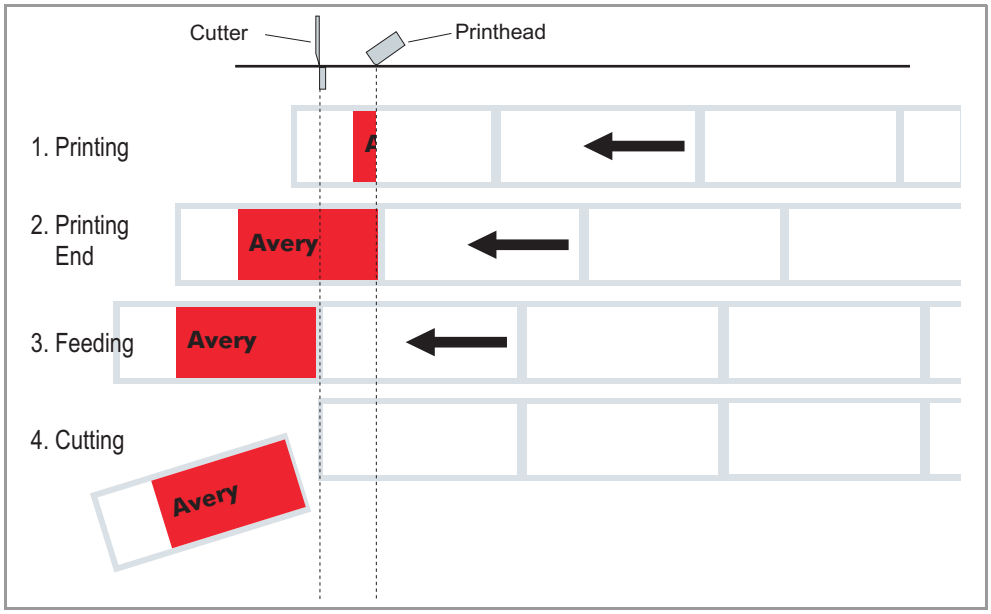
- Ribbon economy is not active (parameter SYSTEM PARAMETERS > Ribbon autoecon. = "Deactivated")
- Material length >18 mm (>14 mm on the TTX 350)
- Number of cuts for a print job - at least 2 or more



[14] Printing process in Batch mode (schematic).

Normal 1:1 mode

In N1:1 mode, cutting takes place during printing. The zero-line of the printing is shifted 18 mm in y-direction. This offset equals the distance cutter-printhead. Caused by this shifting, the first 18 mm of the label are not printable. These measurement corresponds to the distance between print head and cutter. The output volume is at its maximum level.
(The offset of the zero-line is caused historically and serves the compatibility of older printer models).



[15] Printing process in Normal 1:1 mode (schematic).

Cut speed

64-xx

➠ Only with mounted and activated cutter (SYSTEM PARAMETERS > Periph. device = „Cutter“).

The cut speed is to be adjusted to the material thickness and strength.

x inch/s

Setting range: 2 to 5 inch/s; Unit interval: 1 inch/s

- 2 inch/s: extremely slow; for thick and strong material
- 5 inch/s: extremely fast; for thin material

Cut position

64-xx

➠ Only with mounted and activated cutter (SYSTEM PARAMETERS > Periph. device = „Cutter“).

The cut position is identical to the detected gap position, i. e. with the start of the label. Fine settings to meet specific customer requirements can be programmed using the parameter PRINT PARAMETER > Cut position.

x inch/s

Setting range: -2.0 to +2.0 mm; Unit interval: 0.1mm

- Maximum offset in feed direction: -2.0 mm
- No offset: 0 mm
- Minimum offset against feed direction: -2.0 mm

Double cut

64-xx

➠ Only with mounted and activated cutter (SYSTEM PARAMETERS > Periph. device = „Cutter“).

Joining grids or the gap area between the labels can be removed using a double cut, thereby improving the outline.

The first cut is offset by the distance set from the recognized gap position away in the feed direction, the second cut is made at the gap position.

A possible correction of the cut position ("Cut position" function) is calculated for both cuts and must be taken into consideration.

x inch/s

Setting range: 0.0 to 5.0 mm; Unit interval: 0.1mm

Normal simple cut: 0.0 mm

➠ The smallest possible double cut distance of 1.0 mm must be adhered to!

Rewind direction

64-xx

➠ Only with mounted and activated rewinder (SYSTEM PARAMETERS > Periph. device = „Rewinder“).

Determines the sense of rotation of the optional Rewinder.

Printing outside — Rewind direction: The printed label is facing outside.

Printing inside — Rewind direction: The printed label is facing inside.

X - Printadjust

64-xx ALX 92x DPM PEM PM 3000

The zero point of the mask is moved in relation to the edge of the label on the X- axis, i. e. lengthways to the material.

➠ If the setting is changed, while the print job is stopped, the printer recalculates the format using the changed values.

➠ Caution with graphics, which are generated via one of the Easy Plug commands #YI, #YIR or #YIB! If the graphics is shifted beyond the label border as a consequence of changing the parameter "X-Printadjust", the part of the graphics which "juts out" will get lost.

x.x mm — Setting range: -5.0 to +5.0 mm; Unit interval: 0.1mm
Default setting: 0.0 mm

- Maximum offset away from the edge of the label: +5.0 mm
- No offset: 0.0mm
- Maximum offset towards the edge of the label: -5.0 mm

Y – Printadjust

64-xx ALX 92x DPM PEM PM 3000

The zero point of the mask is moved in relation to the gap position on the Y-axis, i. e. in the feed direction.

➠ If the setting is changed, while the print job is stopped, the printer recalculates the format using the changed values.

➠ Caution with graphics, which are generated via one of the Easy Plug commands #YI, #YIR or #YIB! If the graphics is shifted beyond the label border as a consequence of changing the parameter "Y-Printadjust", the part of the graphics which "juts out" will get lost.

x.x mm — Setting range: -5.0 to +5.0 mm; Unit interval: 0.1mm
Default setting: 0.0 mm

- Maximum offset in feed direction: +5.0 mm
- No offset: 0.0mm
- Minimum offset against feed direction: -5.0 mm

Punch mode

64-xx ALX 92x DPM PEM PM 3000

Automatic Automatic mode, for material with a contrast zone = gap in the label.

"Automatic" is the default setting, suitable for all materials with which there is a difference in the transparency between the label and gap of more than 2 values (see Description, sensor check).

Manual Manual setting, for material with several varying contrast zones. Settings are made using the parameter PRINT PARAMETER > Punch level.

The range of the value automatically measured by the gap detection can be defined specifically for the label material. This allows materials with high-contrast proof points within the label to be processed, which would otherwise be measured as 'false' gaps by the system. The corresponding setting value is then equal to, or smaller than, the value measured at the actual gap.

Punch level

64-xx ALX 92x DPM PEM PM 3000

➠ Only if PRINT PARAMETERS > Punch mode = „Manual“.

xxx Setting range: 0 to 255; Unit interval: 1

The value xxx stands for the current contrast within the photoelectric switch of the material which has just been inserted. This serves to determine a threshold value for the inserted material.

```
Punchlevel
Punch xxx Val yyy
```

xxx = current measurement at the punch sensor
yyy = set threshold value

Example

Self-adhesive material with black bars lengthways across the label

- Reading:
  – Masking paper: 30
  – Masking paper + label: 60
  – Masking paper + label + black bars: 190
- Setting value: 60
  A setting value of 60 means that all readings over 60 are ignored, therefore also the reading 190 at the black bar.

INTERFACE PARA

Interface parameter

> EASYPLUGINTERPR

Interface

64-xx ALX 92x DPM PEM PM 3000

Interface type

This parameter sets the interface, by which the printer will receive data.

Serial Com1 — Serial interface Com1.

❍ Selection of the type of serial interface is done with parameter INTERF. PARAM > EASYPLUGINTERPR > Serial Port Mode.

Serial Com2 — Serial interface Com2.

➠ Only with optional I/O board mounted.

➠ Mounting the I/O board changes the parameter SERVICE FUNCTION > Easy Plug Monitor: The monitor data will be transmitted via Com1.

Centronics — Parallel interface (Centronics); Default setting

Only for Ethernet interface (10/100 Base T):

TCP/IP Socket — Print data can be sent to the printer via a TCP/IP socket

LPD Server — Print data can be sent to the printer via the LPR/LPD-protocol

Automatic — All interfaces are enabled to receive data, but *not simultaneously*.

➠ Don´t send data to more than one interface at a time.

➠ Except are interfaces, which are being used by an option (e.g. OLV).

Spooler mode

64-xx ALX 92x DPM PEM PM 3000

The operating mode of the spooler determines whether print series are processed individually, or whether the spooler can receive print data when printing several series.

Single print job — Single print series mode (the interface can only receive data after printing the required number of labels of a single series)

Mult. print jobs — Multiple print series mode (the interface can receive data while the series is being printed)

Printer ID No.

64-xx ALX 92x DPM PEM PM 3000

Printer identification number

Determines the identification number of the printer. In such a way, the printer can be addressed by the Easy Plug command #!An (n=printer ID).

The use of ID numbers is in particular reasonable for data transfer by RS422/485 interface, if several printers are connected by one data line. Each of the connected printers then only incorporates the data mapped to him by #!An command.

xx — Setting range: 0 to 31; Unit interval: 1

Spooler size

64-xx ALX 92x DPM PEM PM 3000

The memory capacity of the printer buffer can be set according to the requirements of each customer.

xxx Kbyte — Setting ranges:
– 64-xx Gen. 3: 16 to 2048 KBytes
– Other devices: 16 to 256 KBytes

Unit interval: 16 KBytes; default setting: 64 kBytes

➠ CAUTION! - All data present in the printer buffer is deleted when altering the spooler size!

The maximum print format is influenced by the spooler size if no plug-in card is used for memory expansion.

Offline mode

64-xx ALX 92x DPM PEM PM 3000

Interf. disabled — Easy-Plug commands are *not* accepted, while the machine is in offline mode (default setting).

Interf. enabled — Easy-Plug commands *are* accepted in offline mode.

Interface delay

64-xx ALX 92x DPM PEM PM 3000

After switching from online to offline mode, the printer interface is deactivated. This parameter offers a setable delay time before deactivating the interface.

xxxx ms — Setting range: 0-1000; Unit interval: 100; Default setting: 0

> COM1 PORT

Baud rate

64-xx	ALX 92x	DPM	PEM	PM 3000

Data transfer speed

Speed of data transfer using the serial interface.

xxxxxx Baud — Setting range: 300 to 115200 Baud; Unit interval: 300/600/1200/2400/4800/9600/19200/38400/115200 (default)

No. of data bits

64-xx	ALX 92x	DPM	PEM	PM 3000

This parameter can be defined in connection with both the serial and the parallel interface.

7 — 7 Data bits

8 — 8 Data bits

Parity

64-xx	ALX 92x	DPM	PEM	PM 3000

Defines the parity check of serial transmitted data.

The parity bit is for checking data transmission. If the check shows an error, a corresponding message is displayed. The setting must be identical at the sender and the receiver. Normally transmission is set without a parity bit.

Odd — Odd parity.
A parity bit is added so that there is an odd number of 1 Bits.

Even — Even parity.
A parity bit is added so that there is an even number of 1 Bits.

None — No check bit. Sending and receiving without check bit.

Always zero — Check bit is always 0 (zero). Sending and receiving without parity check.

Stop bits

64-xx	ALX 92x	DPM	PEM	PM 3000

Number of stop bits

Number of stop bits at the serial interface.

1 Bit — 1 stop bit

2 Bit — 2 stop bits

Data synch.

64-xx ALX 92x DPM PEM PM 3000

Data synchronisation at the serial interface.

RTS/CTS Data synchronisation through hardware

XON/XOFF Data synchronisation through software

None Handshake signals are ignored

Frame error

64-xx ALX 92x DPM PEM PM 3000

Display (Default) An error message is displayed, if a framing error is detected while the printer is receiving serial data.

Ignore Framing errors will be ignored, no error messages are displayed.

> COM2 PORT

➠ This menu only appears, if the optional I/O board is installed.

Baud rate

64-xx ALX 92x DPM PEM

➠ With mounted and connected I/O board only.

❍ See parameter Baud rate / on page 53.

No. of data bits

64-xx ALX 92x DPM PEM

➠ With mounted and connected I/O board only.

❍ See parameter No. of data bits / on page 53.

Parity

64-xx ALX 92x DPM PEM

➠ With mounted and connected I/O board only.

❍ See parameter Parity / on page 53.

Stop bits

64-xx	ALX 92x	DPM	PEM

➠ With mounted and connected I/O board only.

❍ See parameter Stop bits / on page 53.

Data synch.

64-xx	ALX 92x	DPM	PEM

➠ With mounted and connected I/O board only.

❍ See parameter Data synch. / on page 54.

Serial Port Mode

64-xx	ALX 92x	DPM	PEM

➠ With mounted and connected I/O board only.

Setting of the serial interface type.

RS232 Sets Com2 to RS 232.
Data synchronisation may be done by hardware (RTS/CTS) or by software (XON/XOFF). Maximum cable length is 15 m.

RS422 Sets Com2 to RS 422.
RS 422 is a 4 wire point to point connection, suitable for only one device. Receiver and driver of the printer are always enabled. Data synchronization is only possible by software (XON/XOFF). Maximum cable length is 1 km with twisted telecommunication cable.

RS485 Sets Com2 to RS 485.
RS 485 is a 2 or 4 wire bus system for up to 30 devices. The printer´s receiver is always enabled, the printer´s driver is only enabled, if the printer sends data to the host. Data synchronization is only possible by software (XON/XOFF). Maximum cable length is 1 km with twisted telecommunication cable.

Frame error

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ With mounted and connected I/O board only.

❍ See parameter Frame error / on page 54.

> COM4 PORT

Internal interface, to which the optional RFID read/write unit can be connected.

Baud rate

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ With mounted and connected I/O board only.

❍ See parameter Baud rate / on page 53.

No. of data bits

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ With mounted and connected I/O board only.

Fixed setting of 8 Bits.

Parity

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ With mounted and connected I/O board only.

❍ See parameter Parity / on page 53.

Stop bits

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ With mounted and connected I/O board only.

Fixed setting of 2 Bits.

Data synch.

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ With mounted and connected I/O board only.

❍ See parameter Data synch. / on page 54.

Frame error

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ With mounted and connected I/O board only.

❍ See parameter Frame error / on page 54.

> CENTRONICS

PnP function

64-xx ALX 92x DPM PEM PM 3000

Off The printer doesn´t send any identification signals to the Centronics port.

On The printer sends identification signals via the Centronics port (if any is connected) to the host computers Windows operating system. Windows will search for an appropriate driver. (Default setting).

> NETWORK PARAM.

IP addressassign

64-xx ALX 92x DPM PEM PM 3000

➠ A change of this parameter setting forces a printer restart.

Fixed IP address This setting activates the parameters "Net mask" and "Gateway address" (see below).

DHCP IP address is assigned automatically. The assigned IP address is displayed for a moment on the printer display, while the printer is starting.

IP address

64-xx ALX 92x DPM PEM PM 3000

xxx.xxx.xxx.xxx Setting range per xxx value: 0 to 255

Change between the digits by pressing the Cut or Feed button; Acknowledge the setting by pressing the Online button. After a change of the IP address, the printer will reset automatically.

Net mask

64-xx ALX 92x DPM PEM PM 3000

xxx.xxx.xxx.xxx Setting range per xxx value: 0 to 255

Depending on the set IP address appears a default value.

➠ We recommend to use the default value!

Gateway address

64-xx ALX 92x DPM PEM PM 3000

xxx.xxx.xxx.xxx Setting range per xxx value: 0 to 255

000.000.000.000 = no gateway is used

Port address

64-xx ALX 92x DPM PEM PM 3000

Setting range: 1024 to 65535. Default: 9100.

Ethernet speed

64-xx ALX 92x DPM PEM PM 3000

Auto negotioation The communication speed is selected automatically.

10M half duplex The communication speed is set to 10 MBit/s half duplex.

10M full duplex The communication speed is set to 10 MBit/s full duplex.

100M half duplex The communication speed is set to 100 MBit/s half duplex.

100M full duplex The communication speed is set to 100 MBit/s full duplex.

MAC address

64-xx ALX 92x DPM PEM PM 3000

Displays the MAC address of the CPU board. This address can not be changed in the parameter menu.

SNMP agent

64-xx ALX 92x DPM PEM PM 3000

➠ Function is not released yet.

SNMP password

64-xx ALX 92x DPM PEM PM 3000

➠ Only in production mode.

➠ Function is not released yet.

FTP server

64-xx ALX 92x DPM PEM PM 3000

The File Transfer Protocol (FTP) server (RFC959) allows access to the RAM disk inside of the printer and, if available, to the CompactFlash-card. The FTP server is capable of multisession mode, without evaluating the user name when logging in. The password must match the set password (see below).

The FTP server can be used with the following clients:

- GNU Midnight Commander 4.6.0 (OS: Linux)
- WS-FTP Pro 5.0 (OS: Windows NT/95)
- MS-IE 5.0, 5.5, 6.0 (OS: Windows NT/95)

Folder structure	**Comment**
CF	This folder is only visible with a CF-card inserted.
└ FONTS	Folder for font files on CF-card
├ FORMATS	Folder for print job files on CF-card
├ GRAPHICS	Folder for graphic files on CF-card
└ LOGOS	Folder for logo files on CF-card
FONTS	Folder for font files on the internal RAM disk
GRAPHICS	Folder for graphic files on the internal RAM disk
LOGOS	Folder for logo files on the internal RAM disk

[6] This folder structure is visible in the FTP client window, if a CF-card is inserted into the printer card slot.

Enabled — Switches the FTP server *on*.

Disabled — Switches the FTP server *off*.

FTP password

64-xx ALX 92x DPM PEM PM 3000

Input of the FTP server password by means of a connected keyboard or the printers operation panel. Default setting: „avery“.

Changing the password:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Put in the next character.
4. Acknowledge the new password by pressing the Online button.

➠ If a keyboard is connected, this can be used for typing in the password.

WEB server

64-xx	ALX 92x	DPM	PEM	PM 3000

The web server may be used to

- read out or change parameter settings of the printer into a web browser
- Operate the printer via a web browser.

Requirements for use of the web server function:

- Printer is connected to network
- A valid IP address is assigned to the printer (by the network administrator or by a DHCP server)
- INTERFACE PARA > NETWORK PARAM. > WEB server must be set to „Enabled“.

Starting the web server:

1. Write down the printers IP address (INTERFACE PARA > NETWORK PARAM. > IP address).
2. Start the web browser.

   Insert into the address field:
   http://[IP address without leading zeros]
   Example: IP address = 144.093.029.031
   Input: http://144.93.29.31
3. Click „Login“.
4. Type in user name (admin) and password (admin).

   If the login was successful, you will find the following menu items at the left window margin:

Menu item	Function
Home	Jump to the home page
Logout	Interrupt the connection to the printer
Parameter	Opens the parameter menu. By clicking on submenus and parameters, those can be opened and the parameter setttings be changed. ➠ Some parameters force the printer to reset, if their setting is modified by means of the operation panel. If the parameters are changed via the web server, this doesn´t happen automatically. Therefore, the modifications only become effective after the next printer restart. A restart can be triggered remote in the „Display view“.
Display view	Opens the display operation panel. Enables remote operation of the printer.
Download	Opens another browser window with the URL of the FTP server. For more information read the description of INTERFACE PARA > NETWORK PARAM. > FTP server.
Help	Help texts

[7] Functions of the web server.

Enabled — Switches the web server *on*.

Disabled — Switches the web server *off*.

WEB display refr

WEB display refresh

64-xx	ALX 92x	DPM	PEM	PM 3000

Automatic updating of the web browser display. The setting determines the time in seconds between two updates.

➠ Setting 0 = „no automatic updating“.

xx s Setting range: 0 to 20; Default setting: 5

WEB admin passw.

WEB administrator password

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only in production mode.

Modifying the password for web server access as admin.
Default setting: „admin“
➠ The user name is also „admin“.

➠ If the user logs in as admin to the web server, he/she has access to all parameters, which are *not* marked with the footmark „only in production mode“.

Changing the password at the operating panel:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Type in the next character.
4. Acknowledge the new password by pressing the Online button.

➠ Alternatively, the password can be typed in using a keyboard, or via the web server.

WEB supervisor p.

WEB supervisor password

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only in production mode.

Modifying the password for web server access as supervisor.
Default setting: „supervisor“
➠ The user name is also „supervisor“.

➠ If the user logs in as supervisor to the web server, he/she has access to *all* parameters.

Changing the password at the operating panel:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Type in the next character.
4. Acknowledge the new password by pressing the Online button.

➠ Alternatively, the password can be typed in using a keyboard, or via the web server.

Time client

64-xx	ALX 92x	DPM	PEM	PM 3000

Loads the current time from a time server.

Disabled — The time client is switched off.

Enabled — The time client is switched on. The time is loaded with the frequency set under Sync. interval from a time server with the IP address Time server IP.

With the time client service, the current date and time can be obtained from a time server using RFC868 time protocol on UDP port 37. For this purpose, a time server IP address needs to be given. Date and time are initially requested at start up an optional in a setable update interval during operation time. It is also stored in the internal real time clock. There is no time offset or daylight saving hour, so the server time must exactly match the local time of the printer.

Time server IP

64-xx	ALX 92x	DPM	PEM	PM 3000

IP address of the time server.

➠ Only appears if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“.

xxx.xxx.xxx.xxx — Enter the IP address following the xxx.xxx.xxx.xxx schema.
Setting range for each xxx value: [0…255].

Sync. Interval

64-xx	ALX 92x	DPM	PEM	PM 3000

Determines the frequency for time requests.

➠ Only appears if INTERFACE PARA > NETWORK PARAM. > Time client = „Enabled“.

xxxx — Setting range: [0…9999] s; Default setting: 3600 s.

DHCP host name

64-xx ALX 92x DPM PEM PM 3000

Host name of the printer. Default setting: „Device name“ + the last 3 figures of the MAC adress.

Typing in the host name at the operating panel:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.

   ➠ Valid characters: A-Z, a-z, 0-9, -
3. Type in the next character.
4. Acknowledge the new password by pressing the Online button.

   ➠ Alternatively, the password can be typed in using a keyboard, or via the web server.

WLAN SSID

64-xx ALX 92x DPM PEM PM 3000

➠ Only with plugged-in WLAN CF-card

A Service Set Identifier (SSID) is the identification of a radio frequency network, which is based on IEEE 802.11.

Each WLAN owns a configurable SSID, by which the network is identified. The SSID is the name of the network.

The SSID character string is configured in the base station (Access Point) of the WLAN. It must be also configured on all clients, which are supposed to access the access point. The SSID is attached uncoded to all pakkets to identify them as part of that network.

xxxxxxxxxxx... The SSID consists of a maximum of 32 alphanumeric characters. Default setting: „avery“

❍ Detailed information about using the WLAN feature: read the user manual, topic section Advanced Applications 🗋.

WLAN WEP

64-xx ALX 92x DPM PEM PM 3000

➠ Only with plugged-in WLAN CF-card

WEP („Wired Equivalent Privacy“) is an encryption scheme for WLAN.

Disabled (Default setting) Communication with the host is *not* encoded.

64Bit key Communication with the host is encoded using 64 Bit WEP encoding.

128Bit key Communication with the host is encoded using 128 Bit WEP encoding.

❍ Detailed information about using the WLAN feature: read the user manual, topic section Advanced Applications 🗋.

WLAN default key

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

Selection of the encryption key, which is used for packet transmission.

x Setting range: 1-4; Default setting: 1

❍ Detailed information about using the WLAN feature: read the user manual, topic section Advanced Applications 🗋.

WLAN 64Bit key 1

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

Definition of an encryptioin key for pakket transmission. The key will be used, if it is enabled under INTERFACE PARA > NETWORK PARAM. > WLAN default key.

xxxxxxxxxxx... Character string of 26 hexadecimal characters. Default setting: „123456789abcd123456789abcd“

➠ Admissible characters: A-Z, a-z, 0-9

❍ Detailed information about using the WLAN feature: read the user manual, topic section Advanced Applications 🗋.

WLAN 64Bit key 2

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

❍ See parameter WLAN 64Bit key 1 **/** on page 64.

WLAN 64Bit key 3

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

❍ See parameter WLAN 64Bit key 1 **/** on page 64.

WLAN 64Bit key 4

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

❍ See parameter WLAN 64Bit key 1 **/** on page 64.

WLAN 128Bit key 1

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

Definition of an encryptioin key for pakket transmission. The key will be used, if it is enabled under INTERFACE PARA > NETWORK PARAM. > WLAN default key.

xxxxxxxxxxx... Character string of 26 hexadecimal characters. Default setting: „123456789abcd123456789abcd“

➠ Admissible characters: A-Z, a-z, 0-9

❍ Detailed information about using the WLAN feature: read the user manual, topic section Advanced Applications 🗋.

WLAN 128Bit key 2

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

❍ See parameter WLAN 128Bit key 1 **/** on page 65.

WLAN 128Bit key 3

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

❍ See parameter WLAN 128Bit key 1 **/** on page 65.

WLAN 128Bit key 4

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

❍ See parameter WLAN 128Bit key 1 **/** on page 65.

WLAN com quality

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in WLAN CF-card

This value represents the signal-to-noise ratio (SNR) of the connection. The value is shown in % and is a measure for the connection quality.

x% WLAN communication quality in %

❍ Detailed information about using the WLAN feature: read the user manual, topic section Advanced Applications 🗋.

WLAN signal lev.

64-xx ALX 92x DPM PEM PM 3000

➠ Only with plugged-in WLAN CF-card

Shows the WLAN average signal level in percent. This value suits for optimizing the location of the printer or access point to get the best network connection.

x% Signal level in %

❍ Detailed information about using the WLAN feature: read the user manual, topic section Advanced Applications 🗋.

> OPTIONS

Remote Display

64-xx ALX 92x DPM PEM PM 3000

Parameter only for development use. Enables controlling the operation panel via serial interface, e.g. with a PC.

➠ This parameter has nothing to do with the optional available remote display, which is connected to a separate outlet.

❍ For details about installing the remote display option, see service manual of the printer, topic section „Service Mechanics“, chapter „Assembling accessories“.

Disabled Remote display is *not* activated.

Serial Com1 The Remote display is connected to Com1.
➠ This setting option is only visible, if no other option is activated at Com1.

Serial Com2 The Remote display is connected to Com2.
➠ This setting option is only visible, if no other option is activated at Com2.

OLV Option

64-xx ALX 92x DPM PEM PM 3000

Disabled OLV-Option is *not* activated (OLV = Online Verifier).

Serial Com1 The OLV is connected to Com1.
➠ This setting option is only visible, if no other option is activated at Com1.

Serial Com2 The OLV is connected to Com2.
➠ This setting option is only visible, if no other option is activated at Com2.

RFID Option

64-xx ALX 92x DPM

Disabled

RFID-Option is *not* activated (RFID = Radio Frequency Identification).

➠ The RFID reader is connected to Com1 or Com2 *internally*, what means, that it does not have to be plugged into the external serial interface connector.

Serial Com1

The RFID reader is connected to Com1.
➠ This setting option is only visible, if no other option is activated at Com1.

Serial Com4

The RFID reader is connected to Com4.
➠ This setting option is only visible, if no other option is activated at Com4.

StandAlone Input

64-xx ALX 92x DPM PEM PM 3000

Defines an interface for data input in standalone mode.

➠ Interfaces are only selectable, if installed and not used by another function (e. g. as data interface). If INTERFACE PARA > EASYPLUGINTERPR > Interface = „Automatic“, all interfaces besides Com3 are blanked out.

None

No data input via interface.

Serial Com1

Com1 is applied for data input in standalone mode.

Serial Com2

Com2 is applied for data input in standalone mode.

Serial Com3

Com3 is applied for data input in standalone mode.

TCP/IP socket

TCP/IP socket is applied for data input in standalone mode.

> DRIVEASSIGNMENT

❍ For detailed information read the Easy-Plug manual, topic section General Notes, Definitions and Command Overview 🗋, chapter „Drive names“.

Drive C

64-xx	ALX 92x	DPM	PEM	PM 3000

Assigns drive letter C: to one of the card slots.

None	C: is not assigned
CompactFlash	(Default) C: is assigned to the standard CF card slot (left slot at the 64-xx)
CompactFlash 2	C: is assigned to the optional second CF card slot (right slot at the 64-xx)
SD/MMC card	Is not yet supported

Drive D

64-xx	ALX 92x	DPM	PEM	PM 3000

Assigns drive letter D: to one of the card slots or USB ports.

None	D: is not assigned
CompactFlash	D: is assigned to the standard CF card slot (left slot at the 64-xx)
CompactFlash 2	(Default) D: is assigned to the optional second CF card slot (right slot at the 64-xx)
SD/MMC card	Is not yet supported
USB stick	D: is assigned to the first detected USB host connector
USB stick 2	D: is assigned to the second detected USB host connector

Drive E

64-xx	ALX 92x	DPM	PEM	PM 3000

Assigns drive letter E: to one of the card slots or USB ports.

None	E: is not assigned
CompactFlash	E: is assigned to the standard CF card slot (left slot at the 64-xx)
CompactFlash 2	E: is assigned to the optional second CF card slot (right slot at the 64-xx)
SD/MMC card	(Default) Is not yet supported
USB stick	E: is assigned to the first detected USB host connector
USB stick 2	E: is assigned to the second detected USB host connector

Drive F

64-xx	ALX 92x	DPM	PEM	PM 3000

Assigns drive letter F: to one of the card slots or USB ports.

None	F: is not assigned
CompactFlash	F: is assigned to the standard CF card slot (left slot at the 64-xx)
CompactFlash 2	F: is assigned to the optional second CF card slot (right slot at the 64-xx)
SD/MMC card	Is not yet supported
USB stick	(Default) F: is assigned to the first detected USB host connector
USB stick 2	F: is assigned to the second detected USB host connector

Drive G

64-xx	ALX 92x	DPM	PEM	PM 3000

Assigns drive letter G: to one of the card slots or USB ports.

None	(Default) G: is not assigned
CompactFlash	G: is assigned to the standard CF card slot (left slot at the 64-xx)
CompactFlash 2	G: is assigned to the optional second CF card slot (right slot at the 64-xx)
SD/MMC card	Is not yet supported
USB stick	G: is assigned to the first detected USB host connector
USB stick 2	G: is assigned to the second detected USB host connector

SYSTEM PARAMETERS

Head disp dist.

64-xx ALX 92x DPM PEM

➠ 64-xx: 64-xx dispenser only and only with SYSTEM PARAMETER > Dispensing edge = „User defined“

For setting the distance between printhead and dispensing edge.

xxx.x mm — Setting range: 10.0 to 100.0 mm; Unit interval: 0.1 mm;
Default setting: 20 mm

Speed unit

ALX 92x DPM PEM

The print or feed speed can optional be set in mm/s or in inch/s.

mm/s — Set speeds in mm/s

Inch/s — Set speeds in inch/s (default)

Cover open error

PM 3000

Defines, when the status message „Cover open“ appears:

Printstatus: Cover open	5003

Immediately — Status message appears immediately after opening the hood (default).

If material feed — Statusmessage appears if the hood is open and material feed is supposed to start.

Foil end warning

64-xx ALX 92x DPM PEM PM 3000

Setting of a limit diameter for the ribbon roll. If the ribbon roll diameter falls below the set value, the displayed message changes from…

ONLINE	X JOBS

…to…

FOLIE	X JOBS

…while the display is blinking.

64-xx, DPM / PEM, ALX 92x:
Additionally to the display message, a signal is set at the (optional) USI.

❍ For details refer to the parameters DP INTERFACE > Ribbon signal and SERVICE DATA > OPERATION DATA > Foil diameter

x.xx mm — Setting range: 25.4 to 50.0 mm; Unit interval: 0.1 mm;
Default setting: 25.4 mm

Foil warn stop

64-xx ALX 92x DPM PEM PM 3000

Disabled — (Default setting) Printer does *not* stop in case of a „Foil end warning“.

Enabled — If a „Foil end warning“ occurs, the printer stops after the current label and shows the status message:

PrintStatus:	5110
Foil low	

➜ Press the online button to acknowledge the message, then the feed button to continue printing.

Display mode

64-xx ALX 92x DPM PEM PM 3000

➠ 64-xx: Dispenser version only.

Makes the *already* printed labels appear in the display instead of the *not yet* printed ones.

Job rest quant. — Display of the *not yet* printed labels of a print job.

➠ The counter keeps it´s value even after switching the printer off.

Dispense counter — Counting of start pulses. Activate the counter by selecting "Dispense counter". The counted number appears on the display after the parameter *Dispense counter* (see below) has been selected.

Dispense counter

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ 64-xx: Dispenser version only.

Dispense counter xxxxxx	xxxxxx = Number of dispensed labels.

➠ The displayed value can be varied by pressing the Cut or Feed button.

There are two ways of setting back the counter:

- Set the parameter *Display mode* (see above) to "Job rest quant." , then back to "Dispense counter" and confirm by pressing the Online button.
- Reduce the displayed number by pressing the Cut button.

Autom. dot check

64-xx	ALX 92x	DPM	PEM	PM 3000

Automatic dot check

Checks the print head for defective dots. The dot check can be carried out either after powerering on the printer or in print pauses between print jobs.

Continuous

The dot check is carried out in pauses between print jobs. If a new print job arrives bevor the dot check is done, the print job will be prefered. The printer then interrupts the dot check and proceeds later with the next "opportunity" at the last tested dot.

The parameters *Early dottest, Latest dottest, Dottestarea from, Dottestarea to* determine the conditions under which the dot check is executed.

➠ Those parameters show up only,

– if "continuous" has been selected
– after the following automatic restart of the printer!

Power on only

The dot check is proceeded immediately after powering on the printer. During testing appears the – blinking – display message:

```
OFFLINE    0 JOBS
Head  dot  test
```

Off

The automatic dot check is switched off.

Early dottest

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if SYSTEM PARAMETER > Autom. dot check = „Continuous“.

Earliest dot check

Determines the number of printed labels, after which the dot check should at the earliest start.

Example:
The setting 3 means that the dot check starts in the first printing pause after three printed labels. After a successfully executed dot check starts the next dot check again in the first pause after three printed labels.

after x label

Setting range: 1 to 9999; Unit interval: 1; default setting: 10

Latest dottest

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if SYSTEM PARAMETER > Autom. dot check = „Continuous“.

Determins the number of printed labels, after which the dot check must be finished.

Example:
The setting 5 means that the dot check has to be finished at the latest after the fifth printed label. If necessary, printing is interrupted after the fifth label. After a successfully proceeded dot check has the next dot check again to be finished after five labels.

after x label

Setting range: 1 to 9999; Unit interval: 1; default setting: 0

➠ The setting "after 0 label" means, that the dot check will possibly be never finished! – given a high utilization of the printer (A printing pause will never be forced).

➠ The value for "Latest dottest" must be set higher than the value for "Early dottest"! (exception: value 0).

Dottestarea from

64-xx ALX 92x DPM PEM PM 3000

➠ Only if SYSTEM PARAMETER > Autom. dot check = „Continuous“.

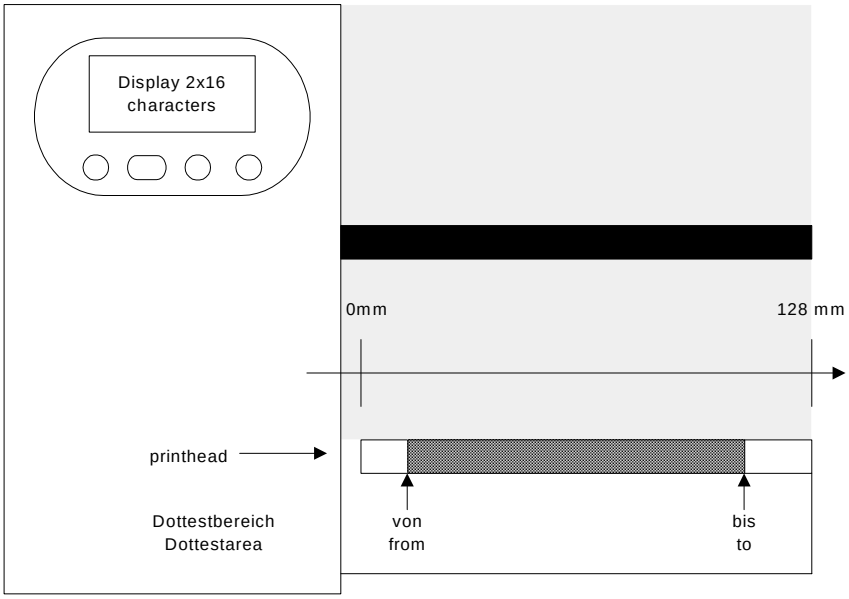
Limitates the area of a print head, in which the dots are checked. The parameter sets the lower border of the dot check area. The value equals the distance to the left print head end in mm, looked at the print head from above (see Fig. 13).

x mm

Setting range: refer to Tab. 3; Unit interval: 1; default setting: 0 mm

Printer type	Setting range in mm	No. of dotss
64-04 / Chess 4	0-107	1280
64-05 / Chess 5	0-128	1536
64-06 / Chess 6	0-160	1920
64-08 / Chess 8	0-214	2560

[8] Setting range for the dot check, depending on the print head width. Right column: Total number of dots of the print head.



[16] Dot check area (=Dottestarea) of the printer (schematic).

Dottestarea to

64-xx ALX 92x DPM PEM PM 3000

➠ Only if SYSTEM PARAMETER > Autom. dot check = „Continuous“.

Upper border of the dot check area. The value sets the distance in mm to the left print head end, looked at on the print head from above.

x mm

Setting range: refer to Tab. 3; Unit interval: 1; Default setting: 0 mm

Print Interpret.

64-xx	ALX 92x	DPM	PEM	PM 3000

The printer uses the MONARCH LANGUAGE INTERPRETER™ to interprete and process data.

Easyplug Printjobs written in the Easy-Plug command language can be interpreted.

Lineprinter Lineprinter (or similar to Lineprinter), print-out of the print command.

Hex Dump Print-out in hexadecimal format.

In Lineprinter and Hex Dump, commands are printed out in the form of a list with the character set 12.

➠ When setting Lineprinter or Hex Dump, Easy Plug commands which have not yet been processed are deleted!

MLI Printjobs written in the ZPL II®[1)] command language can be interpreted.
➠ Firmware loading requires changing into EasyPlug first.

EasyPlug / MLI Printjobs in EasyPlug and MLI can be interpreted.

➠ Use this setting only for simple printjobs. Complications are more likely with this setting.

1) ZPL II is a registered trademark of ZIH Corp. ZIH Corp. and Avery Dennison (including Paxar Corporation and its subsidiaries) are not related in any way, and ZIH Corp. has not licensed or otherwise sponsored MONARCH® printers or Avery Dennison's MONARCH LANGUAGE INTERPRETER™. MONARCH®, MONARCH LANGUAGE INTERPRETER, MLI are trademarks of Paxar Americas, Inc. Avery Dennison is a registered trademark of Avery Dennison Corporation.

Character sets

64-xx ALX 92x DPM PEM PM 3000

Setting the character set:

- *8bit*: Choose between IBM and ANSI character set.
- *7Bit*: Additionally to the IBM and ANSI character sets, some country specific character sets are provided, which have some characters allocated differently (see table below)

➠ The country specific character sets are only suitable for older 7bit applications!

Decimal	35	36	64	91	92	93	94	96	123	124	125	126	>127
ASCII	**#**	**$**	**@**	**[**	****	**]**	**^**	**‘**	**{**	**|**	**}**	**~**	
ISO 8859-2 [a]	#	$	@	[	\	]	^	`	{	|	}	~	print
ANSI (CP 1250) [a]	#	$	@	[	\	]	^	`	{	|	}	~	print
ANSI (CP 1252)	#	$	@	[	\	]	^	`	{	|	}	~	print
IBM	#	$	@	[	\	]	^	`	{	|	}	~	print
Special	*f*	¢	blank	blank	¼	½	blank	blank	«	•	»	±	blank
Norway	#	$	@	Æ	¥	Å	^	`	æ	¢	å	~	blank
Spain	#	$	@	i	Ñ	Ç	^	`	¿	ñ	ç	~	blank
Sweden	#	•	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü	blank
Italy	Š	$	§	°	ç	é	^	ù	à	ò	è	`	blank
Germany	#	$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß	blank
France	£	$	à	°	ç	§	^	`	é	ù	è	~	blank
United Kingdom	£	$	@	[	\	]	^	`	{	|	}	½	blank
USA	#	$	@	[	\	]	^	`	{	|	}	~	blank
	blank = space, print = printable												

[9] Country settings for applications, which base on 7bit ASCII code.

a) Not available with AP 4.4

❍ For complete tables of all fixfonts characters available with setting "IBM" refer to the User Manual, topic section "Internal Fonts". You also find there a comparison of the IBM and ANSI character sets.

Character filter

64-xx ALX 92x DPM PEM PM 3000

Character >= 20Hex — Filter function is activated. Characters smaller than 20H are filtered out of the data flow.

All character — Filter function is deactivated. Characters smaller than 20H are treated as normal characters.

Light sens. type

64-xx ALX 92x DPM PEM PM 3000

Light sensor type

The optional reflex photoelectric switch for labels with reflecting length markings, or the normal factory-fitted photoelectric switch for labels with transparent or register gaps (self-adhesive labels), must be defined according to the application.

Full Size — Full Size photoelectric switch (Adjustment range is the material width).

Reflex — Reflex photoelectric switch (for reflecting markings)

Punched — Transparent photoelectric switch (for gaps)

Head-sensor dist.

64-xx ALX 92x DPM PEM PM 3000

➠ Parameter appears only in production mode or if a value > 0 is set.

Printhead-sensor distance

Special function for setting non-standard punch sensors. Such sensors can be applied in special application devices ("Nistan"). The value x is the distance between thermal edge and punch sensor in millimeters.

x mm — Setting range: 0 to 400 mm

➠ A „non standard sensor“ must be installed and connected instead of the regular punch sensor.

➠ 0 = disabled (the regular punch sensor is used).

Sens. punch-LS

64-xx ALX 92x DPM PEM PM 3000

Sensitivity punch light sensor

Sets the sensitivity of the material photoelectric switch.

xxx% Setting range: 10 to 100%; Unit interval: 10%
Default setting: 50%

Maximum sensitivity: 100%. for narrow gaps (perforations).

Minimum sensitivity: 1%. for clearly detectable gaps.

➠ Too high a level of sensitivity can lead to gaps being detected which do not even exist (on proofs, material thickness fluctuations, perforations etc.).

Ribbon autoecon.

64-xx ALX 92x DPM PEM PM 3000

Ribbon automatic economy mode

The ribbon feed can be interrupted during print periods with the ribbon automatic economy parameter. This saves ribbon, particularly with long labels with a minimum print area. The automatic function should only be activated with unprinted areas from approx. 10 mm in length.

A selection can be made between thermal transfer printing and thermal direct printing. It is necessary to select the type of printing in order to be able to switch over the ribbon end detection.

Thermal printing Thermal direct printing (Ribbon-end-LS switched off)

Activated (not with AP 4.4/5.4)

Thermal transfer printing with ribbon automatic economy mode on.

Deactivated Thermal transfer printing with ribbon automatic economy mode off.

Ribbon economy limit

64-xx ALX 92x DPM PEM PM 3000

The ribbon economy limit determins the length of the printing free area on the label from that on the ribbon economy automatic should be activated.

x,xx mm Setting range: xx up to 100,0 mm; Unit interval: 0,1 mm (the initial value depends on the feed speed)
Default-value: 5.0 mm

Feed mode

64-xx DPM PEM ALX 92x PM 3000

Head up (Default) The printhead is *lifted* during label material initialization and label feeding.

Head down The printhead is *down* during label material initialization and label feeding.

Turn-on mode

64-xx ALX 92x DPM PEM PM 3000

Operating mode of the printer after it has been switched on.

Online Printer starts in on-line mode.

Offline Printer starts in off-line mode.

Standalone Printer starts in standalone mode.

Error reprint

64-xx ALX 92x DPM PEM PM 3000

If an error occurs while a label is printed, the last printed label will normally be reprinted. In case of label layouts containing variable data like e.g. count fields, switching off the reprint function possibly makes sense.

Enabled Reprint in error cases (default setting)

Disabled No reprint in error cases.

EasyPlug error

64-xx ALX 92x DPM PEM PM 3000

Handling of errors caused by faulty Easy-Plug commands.

Tolerant handl. The label is printed, after the Easy-Plug/Bitimage error was acknowledged (default setting).

Strict handling The Easy-Plug command, which caused the error, is displayed after approx. 2 seconds in the lower display line. The displayed text is up to 30 characters long and is scrolled automatically.

If a single character caused the error, this character is marked with „>> <<„ in the display text, to facilitate the detection.

By pressing the cut button, the display can be toggled between error message and Easy-Plug command text.

After acknowledging the first occured Easy-Plug error, the printjob and the spooler are deleted (as by #!CA). This prevents the printing of labels with format errors.

Single job mode

64-xx	ALX 92x	DPM	PEM	PM 3000

In single job mode (also stop mode) the printer stops after every job and waits until the operator restarts the print process.

Deactivated — Single job mode is switched off (default setting).

Activated — Single job mode is switched on. The printer always displays "Start next job", before starting a new print job. This requests the user to acknowledge by pressing the Online button.

Head resistance

64-xx	ALX 92x	DPM	PEM	PM 3000

For optimum print quality, the individual print head resistance of the thermo head employed in the device must be set once with this parameter.

When replacing the print head, the resistance value of the print head (to be read off from the print head) must be entered again.

➠CAUTION! - Entering a false value can damage the print head!

➜ Read off the correct value from the print head and set it accordingly.
➠ The value set here remains when the factory settings are carried out.

xxxx Ohm — Setting range: 1000 to 1500 Ohm; Unit interval: 1 Ohm

Setting the print head resistance:

Setting:

1. From the print head, read off the resistance value to be set and make a note of it (1000 to 1500).
2. In off-line mode press the Prog. button, display: *PRINT INFO*.
3. Press the Cut button until *SYSTEM PARAMETER* is displayed.
4. Press the Online button, display:

   SYSTEM PARAMETER
   Foil end warning

5. Press the Cut button until the following is displayed:

   SYSTEM PARAMETER
   Head resistance

6. Press the Online button, set value is displayed.
7. Set the previously noted resistance value of the print head using the Feed and Cut buttons.
8. Press the Online button to confirm the set value.
9. Press the Prog. button to return to the display *OFFLINE 0 JOBS*.

Temp. reduction

64-xx	ALX 92x	DPM	PEM	PM 3000

Reduction in the print head temperature

The parameter SYSTEM PARAMETER > Temperature reduct. allows the power supply to be reduced in the event of an increase in the print head temperature, thereby ensuring an evenly good print image.

xxx% Setting range: 0 to 100%; Unit interval: 5%

The following setting alternatives are available:

- 0%: No temperature reduction.
- xx%: Up to xx% temperature reduction with a hot print head.
- Default setting: 20%.

❍ For further information refer to the user manual, topic section „Advanced Application“, chapter „Printing with Termperature Compensation“

Voltage offset

64-xx	ALX 92x	DPM	PEM	PM 3000

The voltage offset increases the head voltage and therefore the head temperature which e.g. was set by Easy Plug command (HV).

xx% Setting range: 0 to 20%; Unit interval: 1%
Default setting: 0%

Expand Logo

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with 8-Dot emulation.

Off Logos are printed in normal size.

On Logos are printed enlarged.

Miss. label tol.

64-xx	ALX 92x	DPM	PEM	PM 3000

Missing label tolerance

The maximum search path for gaps which cannot be found can be varied. In cases of difficult gap detection (i. e. minimum variation in the light transparency, gap to label), shortening the search path is to be recommended. Label loss resulting from gaps not being detected can be reduced in this way. Printing does not take place during the search process.

xx — Setting range: 0 to 50; Unit interval: 1

- Example 0 (Zero label length): A gap must be found after a printed label otherwise an error message is given. This setting is for detecting every missing label.
- Example 5 (Five label lengths): A gap must be found after a maximum of 5 label lengths otherwise an error message is given.

Gap detect mode

64-xx	ALX 92x	DPM	PEM	PM 3000

After one of the following events, the printer must always search for the punch, that is initialize the label material:

- After switching the printer on
- After changing the label material

Manual — The operator has to initialize the material always manually by pressing the feed key several times.

Autom. Forward — (Default for printers) The material initialization is always done automatically, if necessary. There is no backward movement of the material during the initialization.

Autom. feed back — ➠ Only *64-xx Dispenser, ALX 92x, DPM/PEM*

(Default for those devices) The material initialization is always done automatically, if necessary. The label material is moved forward and backward during the initialization. The stretch of backward movement can be set with parameter SYSTEM PARAMETER > Max InitFeedback (see below).

Foil stretching

64-xx	PEM	PM 3000

➠ Only in Production mode.
➠ 64-xx: Only standard printers (without dispenser).

After stopping and restarting the print process, the print quality can fall off for a short stretch in the area printed first after the restart. The reason for this behaviour is the foil tension, which relaxes slightly due to the stopping.

The foil stretching function feeds the label material backwards for the defined stretch befor restarting the print process. Afterwards, feeding starts befor the printing. This stretches the foil before printing starts.

- Advantage: High print quality from the beginning
- Disadvantage: Higher foil consumption; lower label rate

Feedback = xx mm — Setting range: 0 to 20 mm; Step width: 1 mm; Default setting: 5 mm

Max InitFeedback

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ 64-xx: Only with dispenser version.

➠ Only if SYSTEM PARAMETERS > Gap detect mode = „Autom. feed back“.

During initialization, the label material is fed back until the next punch/reflex mark is reached. This parameter defines the maximum admissible backwards feeding length.

xx mm — Setting range: 0 to 200 mm; Step width: 1 mm; Default setting: 80 mm

Mat.end detect.

64-xx	ALX 92x	DPM	PEM	PM 3000

Material end detection.

The material end detection can be deactivated for processing labels with gaps longer than 15 mm, or if using material with a high fluctuation in light transparency (ST05 = material end is displayed even though material is present).

➠ CAUTION! - Reel material should not be processed when the material end detection is deactivated! With this setting, printing continues on the print roller after the end of the material, leading to shorter cleaning intervals or damage.

Reflex — Material end detection by means of a reflex sensor.

Transparent — Material end detection by means of a transmission sensor.

Disabled — No material end detection.

Periph. device

64-xx

After installation, options must be selected under "Peripheral device" in order to be assured of the corresponding sensor queries and printer reactions.

➠ CAUTION! - Selecting an incorrect option can lead to malfunctions or damage!

None No peripheral device is installed.

Cutter Sets the printer firmware to the cutter option. Selection permits access to the cut parameters.

Rewinder Sets the printer firmware to the rewinder option. Selection permits access to the rewinder setting parameters.

Tear-off edge Sets the printer firmware to the tear-off edge option. The punch is fed forward to the tear-off edge.

Dispenser Setting for 64-xx dispenser version.

➠ 64-04/05 only: After selecting this value, the parameter SPECIAL FUNCTION > Disp. Head Offs. appears automatically, if the parameter SPECIAL FUNCTION > Printhead type is set to „KCE 4 Inch“.

❍ See parameter Disp. Head Offs. / on page 119.
❍ See parameter Printhead type / on page 119.

Singlestartquant

64-xx ALX 92x DPM PEM PM 3000

Single start quantity

xx Setting range: 1 to 10; Unit interval: 1

External signal

64-xx ALX 92x DPM PEM PM 3000

The parameter determines, if and how an incoming signal at the - optional - single start connector will be interpreted.

Disabled Signal interpretation disabled.

Singlestart The signal triggers the printing of a single label. This setting may be used e.g. for printing single labels by means of a foot switch.

Stacker full The signal triggers the display of a status report and stops the printer. This setting may be used when using a stacker (= stacker full signal).

❍ Detailed information about using start signals can be found in the user manual, topic section „Advanced Applications“, chapter „Printing with start signal“, Settings in the parameter menu 🗋

Dispensing mode

64-xx ALX 92x DPM PEM PM 3000

➠ Only if SYSTEM PARAMETER > Periph. device = „Dispenser“.

➠ Only effective in real 1:1 mode!

Real 1:1 mode normally bears the disadvantage of a slightly lower impression accuracy, caused by the additional slippage at the rollers while feeding back.

The parameter "Dispensing mode" enables optimal positioned printouts even in real 1:1 mode. This accuracy is reached by feeding back the next label to be printed behind the gap sensor instead of "only" as far as under the print head. The additional distance of backwards feeding reduces the output rate slightly.

exact Printout with a maximum impression accuracy

fast Printout with a lower impression accuracy but higher output rate.

Application mode

64-xx ALX 92x DPM

➠ 64-xx: Only if SYSTEM PARAMETER > Periph. device = „Dispenser“.

Save Mode A start signal is required to draw the next label back under the print head. This setting bears advantages for label material with a strong adhesive, which would not stay attached to the applicator when the backing paper is fed backwards.

Immediate Mode After the just printed label has reached the dispense position, the following label is drawn back under the print head. The dispensed label stays attached to the applicator (default setting).

Synchronous mode Drawing back of the next label to be printed is triggered by the *not* active edge of the start signal. The active edge is defined with DP INTERFACE > Start print mode („Pulse rising“ or „Pulse falling“). *Not* active is the opposite signal edge.

➠ USI: The setting „Synchronous mode“ is only available, if the following conditions are met:
– USI firmware version: 7 or higher.
– DP INTERFACE > Start print mode = „Pulse rising“ or „Pulse falling“.

Start mode

64-xx ALX 92x DPM PEM PM 3000

Settings for interpreting the start signal.

➠ Only relevant for start signals coming from the following sources:
– Foot switch connector (SYSTEM PARAMETERS > Start source = „Foot switch“)
– D-Sub connector for dispensing edge light barrier (SYSTEM PARAMETERS > Start source = „Light barrier“)
– *not* USI

❍ Detailed information about using start signals can be found in the user manual, topic section „Advanced Applications“, chapter „Printing with start signal“, Settings in the parameter menu 🗋

Level — Labels of a certain print job are being printed as long as the signal level is "high". When using a foot switch, labels are printed as long as somebody keeps his/her foot on the foot switch.

Edge — The rising / falling signal edge triggers the printing of exactly one label (Default setting).

❍ See parameter Signal edge */* on page 89.

Start source

64-xx

➠ 64-xx dispenser only.

Choose a signal source for the start signal:

Foot switch — The start signal is expected at the foot switch connector (optional connector on the printer rear side).

Light barrier — (Default setting) The start signal is expected at the D-Sub connector at the front side of the printer (photoelectric switch at the dispensing edge which detects the taking off of the dispensed label).
➠ The setting "Light barrier" is unsuitable for product sensors! Product sensors must be connected to an USI!

USI — The start signal is expected at the USI interface (only with installed USI board).
➠ For this setting, the parameter in the menu DP INTERFACE are relevant.

❍ Detailed information about using start signals can be found in the user manual, topic section „Advanced Applications“, chapter „Printing with start signal“, Settings in the parameter menu 🗋

Dispensing edge

64-xx

➠ Only if SYSTEM PARAMETER > Periph. device = „Dispenser“.

Adapts the feeding to the length of the dispensing edge.

long	Long dispensing edge
short	Short dispensing edge (Default setting)
User defined	The distance between print line and dispensing edge can be set by SYSTEM PARAMETER > Head disp dist (see below). This is helpful if none of the standard dispensing edges are applied.

Head disp dist

❍ See parameter Head disp dist. / on page 70.

Transport mode

64-xx

➠ Only if SYSTEM PARAMETER > Periph. device = „Dispenser“.

In normal operation mode, the rewinder motor (Dispenser Motor) feeds the material, while the feed motor runs idle. When applying very slim material, it can be advisable to add the power of the feed motor in order to prevent material rupture (Dual Motors). To run the printer like a usual non-dispenser, the rewinder motor can be switched off (Printer Motor).

➠ Absolutely use the "Dual Motors" mode, if the following three conditions are the case:

– Printer is used as dispenser
– Ribbon autoeconomy mode switched on
– Print speed higher than 203 mm/s (8 inch/s)

Printer Motor	Rewinder motor switched off. The printer behaves like a model without dispenser option.
Dual Motors	Both motors (feed and rewinder) are activated.
Dispenser Motor	The feed motor is switched off. The rewinder motor feeds the material (Default setting).

Signal edge

64-xx ALX 92x DPM PEM PM 3000

This parameter determins either the falling or the rising edge of an incoming signal as trigger.

➠ Only relevant for start signals coming from the following sources:
– Foot switch connector (SYSTEM PARAMETERS > Start source = „Foot switch“)
– D-Sub connector (SYSTEM PARAMETERS > Start source = „Light barrier“)
– *not* USI

Falling edge The falling signal edge triggers a certain printer reaction.

Rising edge The rising signal edge triggers a certain printer reaction.

Apply key

64-xx ALX 92x DPM PEM PM 3000

➠ 64-xx: Only if SYSTEM PARAMETER > Periph. device is set to „Dispenser“.

➠ Parameter is displayed in production mode only.

➠ Only if SYSTEM PARAMETERS > External signal is set to „Singlestart“

Enabled (Default) The application can be triggered by pressing the cut respectively apply key.

Disabled Triggering the application by pressing the cut/apply key is *not* possible.

Print contrast

64-xx ALX 92x DPM PEM PM 3000

xxx% Setting range: 1 to 110%; Unit interval: 1; Default setting: 60

CAUTION!

The parameter Print contrast affects directly the life durance of the printhead. It counts: „The higher the setting of Print contrast is, the lower is the life durance of the printhead“. This counts even more for settings above 100%. Therefore mind:

➜ Always choose the lowest possible setting necessary to produce an acceptable print result.

Ram disk size

64-xx ALX 92x DPM PEM PM 3000

A part of the printer memory can be identified as a RAM disk. The RAM disk can be used in the same way as the Compact Flash Card, e.g. for storage of logos or fonts.
With the parameter Ram disk size, the customer can set the size of the RAM disk to his needs. Be aware, that RAM disk memory is not available for print picture buildup. Use of much RAM disk memory reduces the picture buildup rate of the printer.

➠ Switching the printer off extinguishes the memory content! Fonts, logos etc., which were loaded on the RAM disk, must be loaded again after switching the printer off.

xxxx KBytes

Setting range: 2048 KBytes to the maximum size, which depends on the memory configuration and allocation of the printer; Unit interval: 128 KBytes; Default setting: 512 KBytes

Font downl. area

64-xx ALX 92x DPM PEM PM 3000

If speedo-fonts are supposed to be used, they have first to be copied to a reserved RAM disk area. Use parameter „Font downl. area“ to reserve the RAM disk area in the required size.

The size of the required RAM disk area depends on the size of the font files to be loaded.

➠ Mind to reserve a big enough RAM disk area!

There are two ways to copy the font files to the RAM disk:

- Copy from CompactFlash card:
  The font files must be placed in a folder named \fonts on the CompactFlash card during system startup. The files must be named fontxxx.spd (xxx = No. from 200 up to 999).

❍ For details refer to the manual „Cards“, subject section „Using Cards“, paragraph „CompactFlash Card“.

- Copy via Easy Plug command #DF (download file).

❍ More information: manual „Easy Plug“, subject section „Description of Commands“.

xxx KBytes

Setting range: 128 KBytes to the maximum size, which depends on the memory configuration and allocation of the printer; Unit interval: 128 KBytes; Default setting: 256 KBytes

➠ Switching the printer off extinguishes the memory content! Fonts, logos etc., which were loaded on the RAM disk, must be loaded again after switching the printer off.

Free store size

64-xx ALX 92x DPM PEM PM 3000

By setting this parameter, a part of the memory is reserved, which the printer firmware can use if necessary (dynamic memory allocation). If this memory area is dimensioned too small, the printer firmware can not work and the error message „8856 Free store size“ shows up.

➠ The more memory is allocated using this parameter, the less memory is available for print jobs.

xxx KBytes — Setting range: 2048 KBytes to the maximum size, which depends on the memory configuration and allocation of the printer; Unit interval: 128 KBytes; Default setting: 2048 KBytes.

➜ A good advice is to increase the set value step by step, starting with the minimum of 2048 KBytes, until the status message 8856 ("Free store size", what means the memory area is low) does no longer appear during data conversion.

❍ Use with the Easy Plug command #YG, see manual Easy Plug 🗋.
❍ See parameter Memory status *I* on page 26.

Print info mode

64-xx ALX 92x DPM PEM PM 3000

Structure option for info printouts.

Par. values right — Setting for 100 mm material width. The parameter values are printed on the right side of the parameter names:

Parameter name: Value

Par. values left — Setting for 100 mm material width. The parameter values are printed on the left side of the parameter names:

Value: Parameter name

Compact right — Setting for 50 mm material width. The parameter values are printed on the right side of the parameter names:

Parameter name: Value

Compact left — Setting for 50 mm material width. The parameter values are printed on the left side of the parameter names:

Value: Parameter name

Reprint function

64-xx ALX 92x DPM PEM PM 3000

Disabled — (Default setting) Reprinting is not possible.

Enabled — The last printed label can be reprinted by pressing the feed button in online mode, if the printer is not printing at that moment.

Language

64-xx	ALX 92x	DPM	PEM	PM 3000

Setting the display language.

Turkish
Polish
Italian
Danish
Dutch
Spanish
French
English
German

Keyboard

64-xx	ALX 92x	DPM	PEM	PM 3000

Setting the keyboard layout country version for standalone operation.

Turkish
Polish
Swedish
Finish
Danish
Spanish
French
English
German

Signal / buzzer

64-xx	ALX 92x	DPM	PEM	PM 3000

On Tone signal activated

Off Tone signal deactivated

Access authoriz.

64-xx	ALX 92x	DPM	PEM	PM 3000

Access authorization

Limits the access either to all printer functions (Power-up code) or only to the parameter menu (user or supervisor mode). Changed settings become active after the next switch-on.

Key codes

Regardless when the code is prompted, can three different key codes be typed in tab. 10.

Enter code

Entering a key code: Type the corresponding buttons of the control panel in succession. A valid key code switches the printer into the appropriate mode.

Mode	Key code	Impact
User	2x Cut [a)], Feed, Online	Access only to the submenus PRINT INFO and SERVICE DATA
Supervisor	2x Online, Feed, Cut, 2x Online	Access to all parameters except production parameters
Production	Cut, Online, Feed, Cut, 3x Online	Access to all parameters

[10] Permissible key codes.

a) With DPM, PEM, ALX 92x press Apply-key instead.

➠ CAUTION! - The key code "production" allows the access to parameters, which are used during production to adjust the printer. Input errors to those parameters can make the printer inoperable or can damage it. For this reason, the production code may only be applied by *trained service technicians*!

➠ Especially service technicians may use the direct access into production mode, even if the parameter *Access authoriz.* is set to *Deactivated*, what means that no password will be queried at all. To do so, proceed as follows:

1. Switch printer off.
2. Switch printer on, simultaneously press the Feed+Prog-key until the printer type is displayed.

   After the printer was powered up, the key code will be queried:
3. Enter the production code.

Possible Settings

Deactivated
Password interrogation switched off (default)

Power-up code
Activates the password interrogation directly after switching the printer on.

After the input of a valid key code, the printer switches into offline mode. Depending on the entered key code, the printer starts in user, supervisor or production mode.

User
Activates the password interrogation when accessing the parameter menu.
- The printer is in the offline mode after switch-on
- Change to the online mode is possible without restriction
- To reach the parameters-menu, enter a valid key code
- Valid key codes: all

Supervisor
As setting „User“, with different valid key codes:
- Valid key codes: Supervisor, Production

User auto start
(Not with AP 4.4) Printer starts without password interrogation. Only the menus PRINT INFO and SERVICE DATA are accessible.

Realtime clock

64-xx ALX 92x DPM PEM PM 3000

The realtime clock provides actual date and time. Those data can be processes using the Easy-Plug #YC, #YS or #DM commands.

Realtime Clock dd.mm.yyyy hh:mm	dd=Day, mm=Month, yyyy=Year, hh=Hour, mm=Minute (Example: 19.02.2001 14:41)

Setting date / time:

1. Press the CUT(Apply) button repeatedly, until the digit blinks which you want to alter.
2. Set the intended value to the digit by pressing the FEED button (repeatedly).
3. Repeat steps 1 and 2 until date / time is set correctly.
4. Press the ONLINE button.

➠ Press the ESC button to leave the parameter without altering the setting.

Material feed

64-xx ALX 92x DPM PEM PM 3000

Suppresses backwards material feeding.

For-/backwards — Standard setting; material is fed forwards and backwards.

Only forwards — The label material is only fed forwards. Printjobs, which contain commands for using R 1:1 or N 1:1 mode, are automatically printed in batch mode. The batch mode is modified in a way, that the label following after a printjob is not drawn back under the printhead, but is ejected in forward direction. The effect is, that one label stays unprinted between two succeeding printjobs.

Print mode	Feed direction following label	
	„for-/backwards“	„Only forwards“
Batch	<-->	-->
R 1:1	<-->	Batch [a)]
N 1:1	<-->	Batch [a)]

[11] Suppression of the backward movement with the setting „Only forwards“.
<--> = Material feeding in both direction; --> = Material feeding only forwards.

a) The backwards movement is suppressed during initialization.

APPLICATOR PARA

➠ This menu only appears in printers of the types DPM, PEM and ALX 92x, and only, if the optional Applicator Interface (AI) is connected.

Applicator type

ALX 92x	DPM	PEM

➠ Only with an AI installed.

Selection, which applicator type will be applied:

LTP-LTPV

LTP = Light Touch Pneumatic
LTPV = Light Touch Pneumatic Vacuum
Applicator with „Light Touch“ function. „Light Touch“ means, that the movement of the (compressed air) cylinder is limited by sensors, which react to a light touch onto the product. The LTPV additionally sucks the labels on with a vacuum nozzle.

Advantages:
- Application on products with different heights possible
- Only light pressure onto the product (important with sensitive products)

❍ Refer to Technical Manual LTP/LTPV 🗋.

PEP

The cylinder movement is limited by a setable length of time. After the run out of this application time, the cylinder moves back into home position.

PEP Blow on

PEP-type applicator with blow on function: After run out of the application time, the blow on function is activated. After run out of the blow on time, the applicator moves back into home position.

PEP II Sensor

The cylinder movement is limited by a (touch down) sensor, which signals the contact to the product and triggers the backwards-movement.

ASA

ASA = Air stream applicator. This applicator type has no moving parts, but blows the label onto the product (also called „blow box“). After the start signal, the blow on valve is opened for a setable time length.

Reverse PEP

This applicator is partly time related. Working procedure:
The applicator moves to its end position and “waits“ for the start signal. The start signal triggers the blow on valve which is active for the defined blow on time. After the run out or the blown on time, the applicator moves to home position, gets the next label and moves to the wait position.

Direct Dispense

Dispensing with dispensing edge (without applicator).

BTS

BTS = Bad tag separator. This device does the opposite of an applicator: it removes labels from the dispensing edge of a labeller. The BTS is used for sorting out RFID labels, which could not be read/written properly.

O-ring applicat.

Setting for an O-ring applicator.

Application mode

ALX 92x	DPM	PEM

➠ Only with an AI installed.

Defines, if the application process starts with applying („After start signal“) or with printing the label. Precondition: A printjob is loaded and the printer is in online mode.

After print The start signal triggers the immediate printing, dispensing and applying of a label.

After start sig. The start signal triggers the application of an already printed and dispensed label. After applying the label, the next one is immediately printed and dispensed.

❍ A flow chart illustrating the application process can be found in the Technical Manual LTP/LTPV, topic section "Specifications", paragraph "Function diagram LTSI / LTP / LTPV".

Start print mode

ALX 92x	DPM	PEM

➠ Only with an AI installed.

Selecting a print mode. Depending on the selected mode, the start signal will be interpreted differently by the AI.

❍ Further information about using a start signal: Read the user manual, topic section „Advanced Applications“, chapter Printing with start signal 🗋.

➠ This parameter has priority over SYSTEM PARAMETER > Signal edge, which is relevant for setting the triggering of the single start connector.

Pulse falling (Default setting) The printing of a label is triggered by a high-to-low change of the start signal. The printing occurs only after the set delay time.

Pulse rising The printing of a label is triggered by a low-high change of the start signal. The printing occurs only after the set delay time.

Pulse fall/ris The printing of a label is triggered by a low-high-change as well as by a high-low change of the start signal. The printing occurs only after the set delay time.

Level low active Labels will be printed as long as the start signal is held low.

Level high active Labels will be printed as long as the start signal is held high.

Start error stop

ALX 92x DPM PEM

➠ Only with an AI installed.

Determines the reaction of the machine on a product start error. A product start error occurs in the following cases:

- If a further start signal arrives, before the current label is completely printed.
- If a reprint is requested, before the first label after powering on is printed.
- If a start signal arrives and no printjob is loaded.

On — Start errors are worked up (the machine stops!) (default setting)

Off — Start errors are being ignored.

APSF sensor res.

ALX 92x DPM PEM

➠ Only with an AI installed.

APSF sensor resolution.

This parameter is not yet supported.

Startdelay

ALX 92x DPM PEM

➠ Only with an AI installed.

Use this parameter to set the distance between product sensor (photoelectric switch) and dispensing edge. The recommended delay time is calculated of the "Start delay" distance and the conveyor speed (= print speed in cases of direct application).

xxx.x mm — Setting range: 0.0 to 999.9 mm; Unit interval: 0.1 mm; Default setting: 0 mm

Dwell time

ALX 92x DPM PEM

➠ Only with an AI installed.

➠ Only if APPLICATOR PARA > Applicator type = „PEP“ or „PEP Blow on“.

Defines the dwell time for the apply cylinder. The dwell time is the time during which the cylinder valve is turned on.

xxxxx ms — Setting range: 1 to 99999 ms; Unit interval: 1 ms; Default setting: 1 ms

Blow on time

ALX 92x	DPM	PEM

➠ Only with an AI installed.

➠ Only if APPLICATOR PARA > Applicator type = „LTP-LTPV“ or „ASA“.

xxxxx ms — Setting range: 0 to 99999 ms; Unit interval: 1 ms; Default setting: 1 ms

Restart delay

ALX 92x	DPM	PEM

➠ Only with an AI installed.

Sets the delay time after the application, during which no start signals are accepted.

xxxxx ms — Setting range: 0 to 99999 ms; Unit interval: 1 ms; Default setting: 0 ms

Position timeout

ALX 92x	DPM	PEM

➠ Only with an AI installed.

Sets the delay time, after which a position error of the applicator is displayed as an error. A position error occurs, if the applicator doesn´t reach any of its end positions within the required time frame.

xxxxx ms — Setting range: 500 to 99999 ms; Unit interval: 1 ms;
Default setting: 2000 ms

I/O BOARD

➠ This menu appears only if the optional I/O Board is mounted.

Start delay

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Use this parameter to set the distance between product sensor (photoelectric switch) and dispensing edge. The resulting delay time is calculated from the start delay (distance) and the print speed, so it leads to a delay time t = start delay (distance) / print speed.

xxx.x mm — Setting range: 0.0 to 999.9 mm; Unit interval: 0.1 mm; Default setting: 0 mm

Start print mode

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Selecting a print mode. Depending on the selected mode, the input signal START_PRINT will be interpreted differently by the I/O Board signal interface. The parameter is also used for the device connected to the foot switch jack.

- Make sure to select SYSTEM PARAMETER > External Signal = Single Start.

❍ See parameter External signal / on page 85.

- Note: The parameter Start Print Mode replaces the parameter Signal Edge in the SYSTEM PARAMETER menu.
- Preconditions: Print job is available (DATA READY), printer is in “Online” mode, no error messages.

Pulse falling — (Default setting) The printing of a label is triggered by a high-to-low change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Pulse rising — The printing of a label is triggered by a low-high change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Pulse fall/ris — The printing of a label is triggered by a low-high-change as well as by a high-low change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Level low active — Labels will be printed as long as the signal at input START PRINT is held low.

Level high active — Labels will be printed as long as the signal at input START PRINT is held high.

Reprint Signal

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Disabled The input signal is disabled

Enabled The last printed label will be reprinted on the falling edge of the REPRINT signal.

Preconditions:

- The label to be reprinted, should be printed and dispensed.
- Printer is in online mode.

If a REPRINT is triggered while the printer is in “I/O-Board Pause” mode, the reprint will proceed as soon as the printer is switched back in online mode. Precondition: in level mode START PRINT must be inactive.

Feed input

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Concerns the input signal FEED at the signal interface.

Enabled (Default setting) Feeding of one label on the falling signal edge. The display shows „I/O board feed“ during feeding. Requirements are:

- Offline mode, „stopped mode“ or „pause mode“
- Online mode and no print job loaded.

Disabled Signals at the FEED input are ignored.

Pause input

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Concerns the input signal PAUSE at the signal interface.

Disabled Signals at the PAUSE input are ignored.

Pause A high-to-low transition switches the printer into the “I/O-Board Pause” mode. The next high-low-transition switches the printer back into the online mode. If parameter I/O-Board > Start print mode is set to „Level high active“ or „Level low active“, any activating of the PAUSE signal stops the printing after the current label.

Features:

- Printer display shows „I/O-Board pause“
- ERROR is active (only if I/O Board > Error output is set to „Printer err+Offl“)
- If a print job is available: DATA READY becomes inactive (if I/O Board > Status output is set to „Print job ready“)
- START PRINT signals are suppressed

- REPRINT requests are processed after switching into online mode.

A "low" signal for 20 ms switches the printer into the pause mode. The pause mode is the same as the "Online stopped" mode and can be switched to the “Online” mode by pressing the feed button.

Error output

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

This parameter defines different events, which activate the output signal ERROR.

Printer error

ERROR will be activated in all of the following cases:

- Material end
- Ribbon end (only if SYSTEM PARAMETER > Foil mode = „Thermo transfer“)
- No punch recognized (only if PRINT PARAMETERS > Material type = „punched“)
- Printhead pressure lever was opened during the printing of a label.
- Start print error
- Other errors, which keep the printer from printing

➠ During the initialization (powering up) of the printer, the ERROR-signal is instable!

Printererr + Offl

In addition to the above mentioned cases avtivate the following events the ERROR-signal:

- The printer is in offline mode
- The printhead pressure lever is open
- „I/O board pause“ mode
- Stopped mode (the printing was stopped)

Error Polarity

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Switches the polarity of the ERROR signal.

Level high activ The output is high when it is active, otherwise low.

Level low active The output is low when it is active, otherwise high. (Default)

Status output

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

This parameter defines different events, which activate the output signal MACHINE STATUS.

Low ribbon warn The signal is activated, if the ribbon roll diameter is less than the limit.

❍ See parameter Foil end warning / on page 71.

Print job ready The signal is activated, if the printer has finished image processing and is ready to start printing.

The signal is *not activated*, if:

- the print job is done,
- the print job was stopped,
- the printer was switched to offline mode,
- the printer is in pause mode.

Status polarity

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Switches the polarity of the MACHINE STATUS signal.

Level high active The output is high when it is active, otherwise low.

Level low active The output is low when it is active, otherwise high. (Default)

End print mode

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with an I/O board mounted.

Concerns the output signal PRINT_END at the I/O board signal interface. Determines the signal response after printing of a label.

Mode0 inactve No print end signal.

Mode1 high level Low, if the print module is just printing a label, otherwise high.
The output is also deactivated (= low) as long as labels are fed with “Feed Button” or “Feed Signal”.

Mode2 low level High, if the print module is just printing a label, otherwise low.
The output is also deactivated (= high) as long as labels are fed with “Feed Button” or “Feed Signal”.

Mode3 low pulse (Default setting) Low for 20 ms after printing and dispensing a label.
The output is also activated (= low) after a label is fed with “Feed Button” or “Feed Signal”.

Mode4 high pulse High for 20 ms after printing and dispensing a label.
The output is also activated (= high) after a label is fed with “Feed Button” or “Feed Signal”.

OLV PARAMETERS

➠ This menu only appears, if an online verifier (OLV) is connected to the printer. For this, the parameter INTERFACE PARA > COM2 PORT > Function Option must be set to „Barcode OLV“.

Verify mode

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

All bar codes — All bar codes are being checked according to the limits set at the printer.

➠ Easy-Plug print jobs don´t have to be modified when using this setting.

Easyplug select. — Only those bar codes are being verified, which have the „V“ set in the command option.

❍ For details refer to the Easy-Plug manual, command #YB.

Ref Decode

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

No Test — The bar code doesn´t have to be decodable.

Pass — The bar code must be decodable.

Decodability

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

xxx — Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Modulation

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

xxx — Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Defects

64-xx ALX 92x DPM PEM PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value <= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Edge contrast

64-xx ALX 92x DPM PEM PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Rmin/Rmax

64-xx ALX 92x DPM PEM PM 3000

Minimaler/maximaler Reflexionsgrad.

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value <= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Symbol contrast

64-xx ALX 92x DPM PEM PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

PCS

64-xx ALX 92x DPM PEM PM 3000

Print Contrast Signal.

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

R (white)

64-xx ALX 92x DPM PEM PM 3000

Reflectance.

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

R (black)

64-xx ALX 92x DPM PEM PM 3000

Reflectance.

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value <= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Ratio

64-xx ALX 92x DPM PEM PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 99; Unit interval: 1; -1 = No checking.

ANSI symbol grade

64-xx ALX 92x DPM PEM PM 3000

➠ Only if OLV PARAMETER > Cancel. printing = „Enabled“.

➠ Condition: Value >= Limit.

For most applications, it is sufficient to set only this parameter. The previously listed parameters are checked automatically according to ANSI grade.

xxx Setting range: -1 to 40; Unit interval: 1; -1 = No checking.

Value	ANSI Grade
0-5	F
5-15	D
15-25	C
25-35	B
35-40	A

[12] ANSI symbol grades

Dist. head-beam

64-xx	ALX 92x	DPM	PEM	PM 3000

For most applications, it is sufficient to set only this parameter. The previously listed parameters are checked automatically according to ANSI grade.

Setting of the distance between reading position of the laser beam and print head.

xx mm — Setting range: 6 to 18; Unit interval: 1

Cancel. printing

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ 64-xx: Parameter is not supported for dispenser version.

Cancellation printing

Disabled — No cancellation printing.

Enabled — If no validation data for the printed bar code was sent, or if the bar code exceeds the set limits, the faulty printed label is cancelled. Afterwards, the same label is reprinted. The amount of reprints can be set with the parameter „Reprint quantity“. If the error still occurs after the so defined quantity of labels was reprinted, the printing stops and an adequate error message appears.

Reprint quantity

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only, if OLV PARAMETER > Cancel. printing = „Enabled“.

Defines the maximum amount of reprint attempts after a bar code read error.

xxx — Setting range: 0 to 10, Unit interval: 1; Default setting: 0

Verify mode

64-xx	ALX 92x	DPM	PEM	PM 3000

Fast — Standard verification mode.

Slow — Each print job is proceeded as if it contained counting fields. Additionally, each labels is moved forward underneath the laser beam and backwards again. This procedure slows down the label throughput, but on the other hand it ensures that the correct counting field content is printed after an error occured.

DP INTERFACE

➠ The parameters described in this section only appear in the parameter menu after a USI board is mounted.

❍ For information on signals and pin assignment of the USI, refer to the Service Manual, topic section "Electronics", chapter "USI board".

Interface type

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Sets the machine to the used application procedure.

USI interface — Setting for direct dispensing.

USI applicator — Setting for operation of an applicator with additional PLC.

Start delay

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Use this parameter to set the distance between product sensor (photoelectric switch) and dispensing edge. The recommended delay time is calculated of the "Start delay" distance and the conveyor speed (= print speed in cases of direct application).

xxx.x mm — Setting range: 0.0 to 999.9 mm; Unit interval: 0.1 mm;
Default setting: 0 mm

➠ The start delay setting works only with one of the following settings of the parameter "Start Print Mode":

Parameter	Setting
Start print mode	Pulse falling
	Pulse rising
	Pulse fall/ris

[13] Precondition for the use of "Start delay": One of those parameter settings must be choosen.

Start print mode

64-xx ALX 92x DPM PEM PM 3000

➠ Only with USI board.

Selecting a print mode. Depending on the selected mode, the input signal START_PRINT will be interpreted differently by the USI interface.

Pulse fall/ris The printing of a label is triggered by a low-high-change as well as by a high-low-change of the signal at the input START PRINT\. The printing occurs only after the set delay time.

Level high activ Labels are being printed as long as the signal at input START PRINT is held high.

Pulse rising The printing of a label is triggered by a low-high-change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Level low active Labels are being printed as long as the signal at input START PRINT is held low.

Pulse falling (Default setting) The printing of a label is triggered by a high-low-change of the signal at the input START PRINT. The printing occurs only after the set delay time.

End print mode

64-xx ALX 92x DPM PEM PM 3000

➠ Only with USI board.

Concerns the output signal PRINT_END at the USI interface. Determins the signal response after printing of a label.

Mode 0 No print end signals.

Mode 1 Low, if the print module is just feeding a label, otherwise high.

Mode 2 High, if the print module is just feeding a label, otherwise low.

Mode 3 (Default setting) Low for 20 ms after printing and dispensing a label.

Mode 4 High for 20 ms after printing and dispensing a label.

Mode 5 The PRINT_END signal is *low* as long as the material is fed forwards (even for gap initialization).

Mode 6 The PRINT_END signal is *high* as long as the material is fed forwards (even for gap initialization).

Reprint signal

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Determins the reaction on an incoming signal at pin REPRINT\ at the USI.

Disabled (Default setting) Incoming signal is ignored.

Enabled On a high-low toggle of the signal: The last printout is repeated.

Ribbon signal

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Concerns the output signal WARNING at the USI, which signalizes the close shortness of ribbon or material.

Enabled (Default setting) High, if the ribbon stack is less than the threshold value.

❍ The threshold setting is done with the parameter SYSTEM PARAMETER > Foil end warning.

Disabled Ribbon signal deactivated.

Material signal

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Concerns the output signal WARNING at the USI, which indicates the close shortness of ribbon or material.

Enabled High, if the diameter of the material roll falls below a certain value. The limit diameter is set by positioning the outer diameter (OD) sensor.

➠ Requirement: "OD sensor material" is installed.

Disabled No material end warning.

Mat. signal stop

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Defines the reaction of the printer on a material low signal coming from the OD-sensor.

❍ See DP INTERFACE > Material signal

Disabled (Default) The output signal WARNING at the USI is activated (precondition: DP INTERFACE > Material signal is set to „enabled“). The printing will be continued.

Enabled After a material low warning occured, the printer finishes printing the current label and stops afterwards. The display shows:

```
Print Status:      5123
USI Material low
```

After acknowledging the message, the printing can be continued.

Feed input

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Concerns the output signal FEED at the USI.

Standard (Default setting) Feed of blank labels as long as signal is "low". Precondition: Off-line mode or printing stopped in on-line mode.

JP5 A signal different from the standard FEED can be used. Precondition: an appropriate firmware change (NISTAN).

Pause input

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Concerns the output signal PAUSE\ of the USI.

Standard (Default setting) A "low" signal for 20 ms switches the DPM / PEM to the pause status. The pause status equals the status "on-line stopped" and can be closed by pressing the feed button.

JP6 A signal different from the standard PAUSE\ can be used. Precondition: an appropriate firmware change (NISTAN).

Start error stop

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Determines the reaction of the machine on a product start error. A product start error occurs in the following cases:

- If a further start signal arrives, before the current label is completely printed.
- If a reprint is requested, before the first label after powering on is printed.
- If a start signal arrives and no printjob is loaded.

If a product start error occurs, the machine stops and displays the appropriate status report. At the same time, the following output signals are activated (set low):

- ERROR
- MACHINE STATUS

On — Start errors are worked up (the machine stops!) (default setting)

Off — Start errors are being ignored.

Internal inputs

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

Defines, if the internal inputs (CN300) on the USI board will be used or not.

❍ To find the location of the inputs, refer to the service manual, topic section "Circuit/Component Diagrams", chapter "USI board".

Enabled — The internal inputs will be enabled.

Disabled — The internal inputs will be disabled.

Apply mode

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with USI board.

➠ Only, if DP INTERFACE > Interface type = „USI Applicator“.

Defines, if the start signal at the USI (or pressing of the cut-/apply-button) triggers the complete Printing-Dispensing-Applying process, or solely the Applying.

After print The start signal triggers the immediate printing, dispensing and applying of a label. Precondition: A printjob is loaded and the printer is in online mode.

After start sig. The start signal triggers the application of an already printed and dispensed label. After applying the label, the next one is immediately printed and dispensed. Precondition: A printjob is loaded and the printer is in online mode.

❍ For detailed information about the applicate mode refer to the Technical Manual LTSI, topic section "Specifications", paragraph "Function diagram LTSI / LTP / LTPV".

MLI PARAMETERS

Avery Dennison's MONARCH LANGUAGE INTERPRETER™ (MLI™) helps you use an Avery Dennison 4.4, 5.4, 64xx, ALX92X, DPM/PEM, or AP7.t printer which was set up for use with ZIH Corp.'s ZPL II®[1]. If you have any questions about using an Avery Dennison printer with these data streams, please contact Service.

This section lists the ZPL II® commands that the Avery Dennison printer's MONARCH LANGUAGE INTERPRETER™ can interpret with any special notes, if applicable.

➠ This menu appears only with SYSTEM PARAMETERS > Print Interpret. set to „MLI" or „EasyPlug / MLI".

➠ MLI is not supported in Standalone Mode.

➠ Recommended settings:
SYSTEM PARMETER > RAM disk size at least 2048 Kbytes
SYSTEM PARAMETER > Free store size at least 2048 Kbytes

Version

64-xx	ALX 92x	DPM	PEM	PM 3000

vx.xx MLI version.

Darkness

64-xx	ALX 92x	DPM	PEM	PM 3000

Print contrast for MLI printjobs. This setting is modified by printjobs which contain print contrast information. The print contrast set by SYSTEM PARAMETERS > Print contrast is not influenced by this setting.

xx Setting range: 0-30; Step width: 1; Default setting: the Easy-Plug setting is overtaken.

Control Prefix

64-xx	ALX 92x	DPM	PEM	PM 3000

Indicates the start of a MLI control instruction.

xxH Default: xx = 7E (0x7E = „Tilde")

1) ZPL II is a registered trademark of ZIH Corp. ZIH Corp. and Avery Dennison (including Paxar Corporation and its subsidiaries) are not related in any way, and ZIH Corp. has not licensed or otherwise sponsored MONARCH® printers or Avery Dennison's MONARCH LANGUAGE INTERPRETER™. MONARCH®, MONARCH LANGUAGE INTERPRETER, MLI are trademarks of Paxar Americas, Inc. Avery Dennison is a registered trademark of Avery Dennison Corporation.

Format Prefix

64-xx	ALX 92x	DPM	PEM	PM 3000

Indicates the start of a MLI format instruction.

xxH — Default: xx = 5E (0x5E = „Caret“)

Delimiter Char

64-xx	ALX 92x	DPM	PEM	PM 3000

Used as a parameter place marker in MLI format instructions.

xxH — Default: xx = 2C (0x2C = „Comma“)

Label Top

64-xx	ALX 92x	DPM	PEM	PM 3000

Label top offset (y-offet) in dots. Equals the parameter PRINT PARAMETERS > Y-Printadjust, which will be ignored, when MLI printjobs are printed.

xxx Dots — Setting range: -240 - +240; Default: 0; Step width: 1

Left Position

64-xx	ALX 92x	DPM	PEM	PM 3000

Left position offset (x-offset) in dots. Equals the parameter PRINT PARAMETERS > X-Printadjust, which will be ignored, when MLI printjobs are printed.

xxx Dots — Setting range: -9999 - +9999; Default: 0; Step width: 1

Manual Calibrate

64-xx	ALX 92x	DPM	PEM	PM 3000

For endless material, the label length information is sent in the printjob. For punched material, the label length has to be detected by activating this function.

YES — Label length calculation for punched material.

➠ Activate this function, if label material has changed.

➠ Calibration should be done after changing material, when there are no printjobs loaded in the printer.

➠ Shortcut (in offline mode): press the feed + prog buttons simultaneously to activate the calibration.

Resolution

64-xx ALX 92x DPM PEM PM 3000

Print resolution in dpi. A 200 dpi graphic printjob can be printed with a 300 dpi printhead.

xxx DPI — Setting range: 200/300 dpi; Default: 300 dpi;

Error Indication

64-xx ALX 92x DPM PEM PM 3000

Selects the way, in which the printer responds in the event of error occuring during printing.

Low
High
Off

Error Level	Setting		
	LOW	HIGH	OFF
0	Ignore	Ignore	Ignore
1	Ignore	Flash on the display	Ignore
2	Prompt user for action	Prompt user for action	Ignore

[14] Error handling settings.

Error Checking

64-xx ALX 92x DPM PEM PM 3000

Enables or disables error checking, when the printer is handling print fields.

YES — Error checking is enabled. (Default)

NO — Error checking is disabled.

305 DPI Scaling

64-xx ALX 92x DPM PEM PM 3000

Enables the printer to emulate the printing with a 11.8 dots/mm printhead.

When a printjob is designed for a printer that uses MLI with 300 dpi (11.8 dots/mm) and is to be printed on a 64-0x series printer (12 dots/mm), this parameter has to be set to YES.

YES — 305 DPI Scaling is enabled. (Default)

NO — 305 DPI Scaling is disabled.

Image Save Path

64-xx	ALX 92x	DPM	PEM	PM 3000

Selects the memory to be used by the ^IS and ^IL commands.

➠ Interpreter version: 1.10 or higher.

CF Card — Optional CompactFlash card

Internal RAM — The printer´s internal RAM. (Default)

Command ^PR

64-xx	ALX 92x	DPM	PEM	PM 3000

Disable — The **p**rint **r**ate sent in the MLI printjob is ignored.

Enable — The print rate is not ignored.

Command ^MT

64-xx	ALX 92x	DPM	PEM	PM 3000

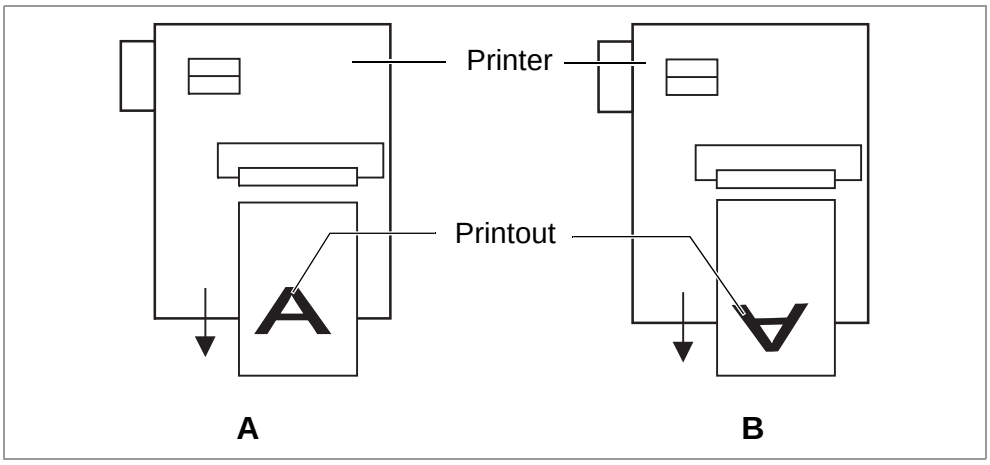
Disable — The **m**aterial **t**ype sent in the MLI printjob is ignored (thermo-transfer or thermo-direct).

Enable — The material type is not ignored.

Label Invert

64-xx	ALX 92x	DPM	PEM	PM 3000

Rotates the printout by 180°. Equals the parameter PRINT PARAMETERS > Print direction, which will be ignored, when MLI printjobs are printed.



[17] Orientation of the printout: Setting „Disable“ (A) or „Enable“ (B).

Disable — The label is printed with „normal“ orientation [17A].

Enable — The label printout is rotated by 180° [17B].

Command ^JM

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Interpreter version: 1.32 or higher

The ^JM command changes the printer resolution:

- ^JMA sets the resolution to the default value = printhead resolution.
- ^JMB sets the resolution to 200 dpi, if the actual resolution is 300 dpi. If the actual resolution is 200 dpi, this command is ignored.

Disable	The resolution setting sent in the MLI printjob is ignored.
Enable	The resolution setting is not ignored.

SPECIAL FUNCTION

Printer type

64-xx ALX 92x DPM PEM PM 3000

➠ Only in production mode.

Selection of the machine type. Must be set after the CPU board was replaced or after new firmware was loaded. The „x“ in the machine name stands for the printhead width. It is detected and replaced automatically.

➠ CAUTION! - Selecting an inappropriate machine type can lead to malfunctions or damage!

Avery 64-0x	64-04/05/06/08 desktop printer.
DPM-0x LH	Printing and dispensing module DPM, lefthand machine.
DPM-0x RH	Printing and dispensing module DPM, righthand machine.
ALX 92x LH	Printing and dispensing machine ALX 924/925/926, lefthand version.
ALX 92x RH	Printing and dispensing machine ALX 924/925/926, righthand version.
Chess x	Chess x desktop printer (same functionality as 64-0x).
Novexx PA-1x6 LH	Printing and dispensing machine Novexx PA-146/156/166 LH, lefthand version (same functionality als ALX 92x LH).
Novexx PA-1x6 RH	Printing and dispensing machine Novexx PA-146/156/166 RH, righthand version (same functionality als ALX 92x RH).
TTx	
MICROJET 64-0x	
MICROJET 64-0xX	
MICROJET 64-0xXX	
PEM-0x LH	Print engine module PEM, lefthand machine.
PEM-0x RH	Print engine module PEM, righthand machine.
PM-0x	Printmaster 3000

Printhead type

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ This parameter is only visible in production mode!

This parameter chooses the applied printhead type. In most cases equals the printhead width the maximum printwidth of the printer. This parameter is called automatically, after you have modified the printer type setting (SPECIAL FUNCTION > Printer type).

KCE 8Inch — Printhead Kyocera KCE, 8" width, is applied in the following printer type: 64-08

KCE 6Inch — Printhead Kyocera KCE, 6" width, is applied in the following printer types: 64-06, DPM 6“, PEM 6“, ALX 926

KCE 5Inch — Printhead Kyocera KCE, 5" width, is applied in the following printer types: 64-05, DPM 5“, PEM 5“, ALX 925, PM 3000

KCE 4Inch — Printhead Kyocera KCE, 4" width, is applied in the following printer types: 64-04, DPM 4“, PEM 4“, ALX 924

Sensor type

			PEM	PM 3000

➠ Only in production mode.

Combined sensor — Required setting, if the printer is equipped with a combined reflex/punch sensor.

Standard — Required setting, if the printer is equipped with separate light sensors for reflex marks or gaps.

Disp. Head Offs.

64-xx

➠ Only with 64-xx dispenser equipped with a 4“ printhead.
➠ Only in production mode.

Dispenser Head Offset

Yes — Setting required for 64-04 dispenser with 4“ printhead: At the inner side end of the printhead exists a non-printable area of 13 mm width.

No — Setting required for 64-05 dispenser with 4“ printhead: Full 4“ print width without restrictions. Precondition: The printhead is positioned at least 13 mm away from the innner side printhead end.

Default Values

64-xx ALX 92x DPM PEM PM 3000

➠ Parameter appears only in production mode.

User defined — The presently selected settings of all parameters will be taken as default values. That is you will get those settings back even after a firmware update. All you have to do is to call the parameter "Factory settings".

Standard — Calling the parameter "Factory settings" will set all parameters to the factory preset values.

Command sequence

64-xx ALX 92x DPM PEM PM 3000

➠ Parameter appears only in production mode.

~ „~“ is used as start sign for Easy-Plug command sequences.

(Default setting) „#“ is used as start sign for Easy-Plug command sequences.

Delete job

64-xx ALX 92x DPM PEM PM 3000

Press the Online-key to cancel the active print job.

```
Delete Job
Clearing . . .
```

Delete spooler

64-xx ALX 92x DPM PEM PM 3000

Press the Online-key to delete all print jobs contained in the spooler.

```
Delete Spooler
Clearing . . .
```

Factory settings

64-xx ALX 92x DPM PEM PM 3000

All parameters are preset ex works to values specific to each device type. These factory settings can be restored at any time.

All parameters are then overwritten by the factory settings.

The currently valid settings can be checked using PRINT INFO > printer status.

➠ CAUTION! - All data present in the spooler, including data belonging to an interrupted print job, is deleted!

Parameter to CF

64-xx ALX 92x DPM PEM PM 3000

Parameter settings are saved in a text file on CF-card (directory FORMATS\). Considered are also parameters which belong to options, which are not activated.

Without adj. par

(Default) Parameters, which contain device specific settings, are *not* saved.

(Default file name: SETUP.FOR).

Application example: Transfer of printer settings to another printer (device specific settings as printhead resistance or sensor settings should not be overwritten).

With adjust para

Parameters, which contain device specific settings, are *also* saved. The relevant parameter names are marked with a * in the text file.

(Default file name: SETUPALL.FOR).

Application example: Service

❍ For more information about saving and reading parameter settings read topic section „Advanced Applications“, chapter „Saving and Transferring parameter settings“.

Diagnosis to CF

64-xx ALX 92x DPM PEM PM 3000

Stores the diagnostic data on CF card. The default file name composes as follows:

„Diagnose AP 5.4 203 Dpi A429403110613.log“

- *AP 5.4 203 Dpi*: printer type and printhead resolution
- *A429403110613*: serial number of the CPU board; equals the value displayed under SERVICE DATA > CPU board data > Serial number

❍ For details read the service manual, topic section „Fault Location“, chapter „Reading out diagnostic data“.

Data blocks del.

Delete data blocks

64-xx ALX 92x DPM PEM PM 3000

➠ Only appears, if at least one data block is in the flash memory.

Bxx

(Default setting) After calling the parameter, data block number 01 is displayed:

```
Data blocks del.
B01 diagnose inf
```

„B01“: block number 01
„diagnose inf“: name of the data block, is contained in the data block header.

If the flash memory contains more than one data block:

➜ Press the cut button several times, until the wanted data block appears.

Deleting a data block:

➜ Press the online button.

```
Data blocks del.
Delete? --> no
```

➜ Press the feed button to change to „yes“.

➜ Press the online button to delete the block.

All — All data blocks contained in the flash memory are deleted.

EasyPl. file log

Easy-Plug file log

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only visible, if a CF-card is inserted.

➠ Activating this parameter may slow down the label rate. Therefore disable the function after error analysis.

➠ Activating this parameter may cause error messages, which may be difficult to understand. Therefore disable the function after error analysis. If an error occurs, disable the function and restart the printer.

Disabled — The file log function is switched off.

All data — All received data, including immediate commands, are written into the log file.

Interpreter data — All data is written into the log file, which the Easy-Plug interpreter reads out of the reception spooler. Immediate commands are *not* included.

Log files delete

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only visible, if a CF-card is inserted.

No — (Default setting) No function.

Yes — Deletes all log files on the inserted CF card, which fulfil the following conditions:

- Filename matches the scheme „EPxxxxxx.log“
  xxxxx = number from 1 to 999999, preceding digits filled with „0“. Example: „EP000001.log“.
- Location: folder \LOGFILES on CF card

Those conditions are matched by logfiles, which are automatically generated by SPECIAL FUNCTION > EasyPl. file log.

RFID stat. del.

64-xx	ALX 92x	DPM	PEM	PM 3000

Sets all RFID counters to zero.

❍ See PRINT INFO > RFID status.

SERVICE FUNCTION

Service

64-xx	ALX 92x	DPM	PEM	PM 3000

Parameter only appears in production mode.

Increases the counter level of the "Service" counter on the "Service Status" printout by one.

❍ See parameter Service Status / on page 31.

yes Increases the counter "Services" by one

no Doesn´t increase the counter

Head exchange

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter only appears in production mode.

Increases the counter „Head number“ on the info printout „Service Status“ by one.

❍ See parameter Service Status / on page 31.

yes Increases the counter "Head number" by one

no Doesn´t increase the counter

Roller exchange

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter only appears in production mode.

Increases the counter „Roll number“ on the info printout „Service Status“ by one.

❍ See parameter Service Status / on page 31.

yes Increases the counter "Roll number" by one

no Doesn´t increase the counter

Cutter exchange

64-xx

➠ Parameter only appears in production mode and only with a cutter mounted and activated.

Increases the counter „Cutter number“ on the info printout „Service Status“ by one.

❍ See parameter Service Status / on page 31.

yes Increases the counter "Cutter number" by one

no Doesn´t increase the counter

Serv. data reset

64-xx ALX 92x DPM PEM PM 3000

➠ Parameter only appears in production mode.

Sets all counters on the info printout „Service Status“ to zero.

❍ See parameter Service Status / on page 31.

Head dot test

64-xx ALX 92x DPM PEM PM 3000

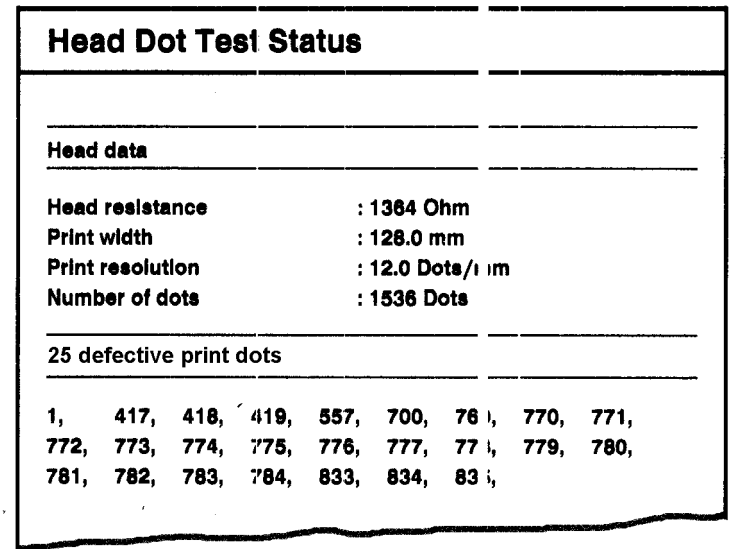
Checks the print head for defective dots. The test ends with a status printout (see Fig. 14), listing the defective dots. The printout is also made without having found any defective dots.

➠ CAUTION! - Never switch off the printer while the dot check is running! If not observed, dots of the print head can be damaged!

During the test appears the display:

```
Head dot test
running ...
```

➠ The printout requires 100 mm wide and 200 mm long label material.


Head Dot Test Status

Head data

Head resistance : 1364 Ohm
Print width : 128.0 mm
Print resolution : 12.0 Dots/mm
Number of dots : 1536 Dots

25 defective print dots

1, 417, 418, 419, 557, 700, 76 , 770, 771,
772, 773, 774, 775, 776, 777, 77 , 779, 780,
781, 782, 783, 784, 833, 834, 83 ,

[18] Status printout after successfully proceeded dot check. Upper section: technical data of the print head; Lower section: list of defective dots.

➠ The dot check can also be startet by pressing the Cut(Apply)+Feed buttons in Off-line mode. However, in this case is no status report printed.

Head step tune

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only in production mode.

Fine adjustment of the printhead movement during the ribbon autoeconomy motion.

x step(s) Setting range: -15 to +15; Unit interval: 1; Default setting: 0

EasyPlug monitor

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter only appears in production mode.

The parameter activates the logging of received Easy Plug data. Data is transmitted to COM1 or COM2.

➠ Activating this parameter may slow down the label rate. Therefore disable the function after error analysis.

➠ To keep the influence of the monitoring function on the data rate as low as possible, the baud rate should be set to 115,000!

Disabled (Default setting) The monitor function is disabled.

Serial Com1 The Easy-Plug monitor data is transmitted to Com1.

Serial Com2 The Easy-Plug monitor data is transmitted to Com2.

EP Monitor Mode

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter only appears in production mode.

➠ Activating this parameter may slow down the label rate. Therefore disable the function after error analysis.

Interpreter data — (Default setting) All received Easy-Plug data, apart from immediate commands, are transmitted.

All data — All received Easy-Plug data, including immediate commands, are transmitted.

Head adjust

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter only for authorised, trained service personnel!

Sensor adjust

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter only appears in production mode.

❍ For detailed instructions sensor adjustment, please refer to the service manual, topic section "Service Electronics", paragraph "Settings".

Sensor test

64-xx	ALX 92x	DPM	PEM	PM 3000

❍ The description of the sensor test can be found in the printer service manual, topic section „Service Electronics“, chapter Sensor test 🗋.

The values displayed are for checking the sensors (sensor check) and can by adjusted by service personnel.

HME registers

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only in production mode.

➠ 64-xx: 64-08 only.

➠ Parameter only for authorised, trained service personnel!

By means of this parameter, the register contents of the HME power supply can be changed.

Cutter test

64-xx

Makes it possible to test the cutter function without having to set the parameter SYSTEM PARAMETER > Periph. device to „cutter“.

Press Cut Key — Triggers a cut, if a cutter is installed. Without a cutter nothing will happen.

Matend tolerance

64-xx ALX 92x DPM PEM PM 3000 AP 4.4 AP 5.4 AP 7.t

Material end tolerance

This is relevant for label stock with very long punches. To avoid those punches being recognized as material end by mistake, can here the distance be set, after which the gap over the light sensor is interpreted as material end.

➠ By choosing a very high material end tolerance, you loose the protection of the print roller against being printed on!

xxx mm — Setting range: 20-300 mm; Default setting: 35 mm

Scanner test

64-xx ALX 92x DPM PEM PM 3000

The scanner test is required for the ex-works adjustment of an optional scanner.

On — Switches the Scanner-Laser on.

Off — Switches the Scanner-Laser off.

Feedadjust label

64-xx ALX 92x DPM PEM PM 3000

Prints a scale, which enables to calculate the feed adjust value (see next parameter).

For application instructions, refer to the Service Manual, topic section „Electronics Gen. 3“, chapter Adjusting the imprint position.

Feed adjust

64-xx	ALX 92x	DPM	PEM	PM 3000

Corrects the material feed length. Such a correction can be necessary when printing on very long labels, to compensate slippage-related feeding inaccuracy.

For application instructions, refer to the Service Manual, topic section „Electronics Gen. 3“, chapter Adjusting the imprint position.

x.x % Setting range: -10,0 to +10,0; Step width: 0,1%; Default setting: 0%

Foil feed adjust

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only in production mode.

Modifies the foil feed speed in comparison to the material feed speed.

xx,x % Setting range: -20,0 to 20,0; Default setting: 0,0

Punch y calibr.

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only in production mode

Compensating the variation of distance between punch sensor and thermal bar of the printhead.

x.x mm Setting range: -3.0 to 3.0; Default setting: 0.0; Unit interval: 0.1

CompactFlashTest

64-xx	ALX 92x	DPM	PEM	PM 3000

Test Compact Flash Cards

Pressing the online button starts a test routine for the Compact Flash Card memory. The following display shows up after successful testing:

```
CompactFlashTest
Card Test O.K.
```

If the Compact Flash Card is defective or not available, a corresponding error report shows up.

For test purposes, the printer creates a file named TESTXXXX.TXT in the root directory of the card. An already existing file with this name will be overwritten.

Send test

64-xx	ALX 92x	DPM	PEM	PM 3000

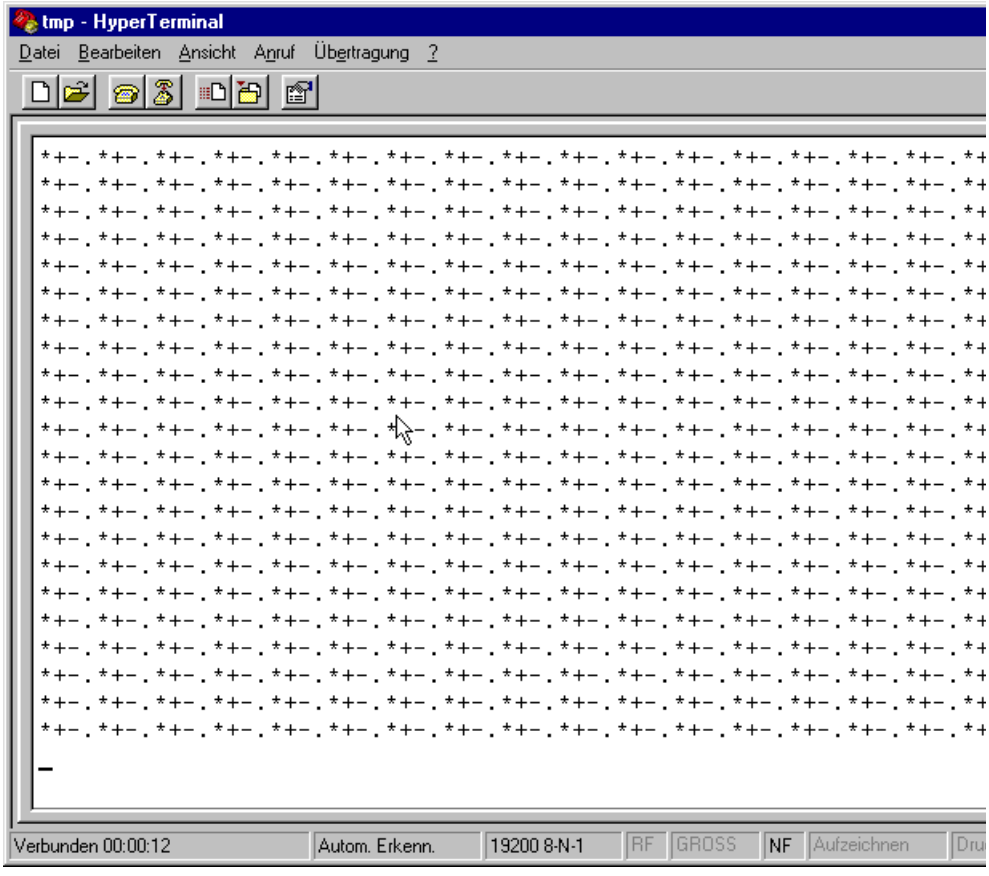
Serial connection

Carrying out the send test requires a terminal program, e.g. the Hyper Terminal contained in Windows95.

Start send test as follows:

1. Start the terminal program and set it to the transmission parameters used by the printer.
2. Press the Online-key to start the send test.

```
Send test
running . . .
```



[19] Pattern in the terminal window.

The terminal window should show a regular pattern of four repeating characters. Those characters are continuous sent by the printer.

A transfer fault would be recognizable as irregularity of the pattern. Press the Prog-key to stop testing.

Parallel connection

The parallel data transfer is done bidirectionally in the Nibble Mode. The transfer test requires an aid program which is available to service engineers.

Receive test

64-xx	ALX 92x	DPM	PEM	PM 3000

Serial connection

Assumption is a serial data line between PC and printer; the parameter INTERF.PARAM. > Interface must be set on RS232 or RS485.

1. Start the MS-DOS-window (using Windows).
2. Set the interface to the values adjusted at the printer by means of MS-DOS command MODE:

   Example of printer settings:
   – Baud rate: 19200
   – No. of data bits: 8
   – Parity: none
   – Stop Bits: 1
   – Data synch.: RTS/CTS

   DOS-Command: *mode com2 19200 8 n 1*
   (if com2 is the serial port)
3. Press the Online-key to start Receive test.

   Receive test
   0 Bytes

4. Send any file to the printer (Condition: com2 = Printer port; anyfile.txt = any file):

   copy anyfile.txt com2 (add /b for binary files)

   The following shows up on the printer display:

   Receive test
   xxxxx Bytes

   xxxxxx is the size of the sent file in bytes. This value is being counted up during the test. The test is complete if the file size does not vary any more. If the bytes announced at the printer match the size visible in the MS-DOS window, transfer was successful. Otherwise, transmission errors occurred.

Parallel connection

Assumption is a parallel data line between PC and printer; the parameter INTERF.PARAM. > Interface must be set up on Centronics. Proceed as follows:

1. Run Receive test. To this call the parameter SERVICE FUNCTION > Receive test and press the Online-key.

   Receive test
   0 Bytes

2. Start the MS-DOS-window (using Windows).
3. Send any file to the printer (Condition: lpt1 = printer port; anyfile.txt = any file):

   copy anyfile.txt lpt1 (add /b for binary files)

   The following shows up on the printer display:

   ```
   Receive test
   xxxxx Bytes
   ```

   xxxxxx is the size of the sent file in bytes. This value is being counted up during the test. The test is complete if the file size does not vary any more. If the bytes announced at the printer match the size visible in the MS-DOS window, transfer was successful. Otherwise, transmission errors occurred.

Rewinder adjust

64-xx	ALX 92x

➠ 64-xx: Only with „Rewinder 2000“ installed.

➠ ALX 92x: Only valid for backing paper rewinder.

Setting up the rewinder.

The rewinder setup compensates differeces in characteristic or assembly of the light barrier.

❍ A setting description for the *64-xx rewinder option* is given in the „Manual Rewinder 2000“, paragraph Adjusting the sensor 🗋.

❍ A setting description for the dancer arm of the *ALX 92x backing paper rewinder* can be found in the Service Manual, topic section „Service Electronics“, paragraph Light sensor rewinder dancer arm (ALX) 🗋.

Resting pos.xxx — Setup of the resting position (xxx = actual sensor value).

End pos. xxx — Setup of the End position (xxx = actual sensor value).

The setting follows in both cases this scheme:

1. Bring the dancer arm to its resting position.
2. Press the cut button (ALX 92x: Apply button)

   ➠ *Not* the Online button (as with TTX x50)!
3. Bring the dancer arm to its end position.
4. Press the Online button.

Com2 commun. test

64-xx ALX 92x DPM PEM PM 3000

➠ 64-xx/ALX 92x/DPM/PEM/PM 3000: Only with installed options board.

After calling this parameter, Com2 puts out all data which are received by the set Easy Plug port.

❍ See parameter Interface / on page 51.
If this parameter is set to RS232, data can also be sent in reverse direction (that is, reception by Com2, output by Com1).

Com2 port test

64-xx ALX 92x DPM PEM PM 3000

➠ 64-xx/ALX 92x/DPM/PEM/PM 3000: Only with installed options board.

Starts a selftest of the Com2 port.

➠ Only works with RS 232.

➠ Pins 2/3 and 7/8 at the interface have to be connected (use a plug with shunted pins)!

During the selftest, data transfer and handshake are tested. The test ends with one of the following display messages:

Com2 port test Test failed	An error has occured while testing the interface.
Com2 port test Test O.K.	Interface test successfully terminated.

Headvo. adj. 20 V

64-xx

➠ Not valid for 64-08.
➠ Only in production mode.

Adjusting the lower head voltage limit to 20 V. The head voltage adjustment makes printouts comparable.

❍ For details about adjusting the printhead voltage, refer to the Service Manual, topic section "Service print module", paragraph "Adjusting the printhead voltage".

Headvo. adj. 28 V

64-xx

➠ Not valid for 64-08.
➠ Only in production mode.

Adjusting the upper head voltage limit to 28 V. The head voltage adjustment makes printouts comparable.

❍ For details about adjusting the printhead voltage, refer to the Service Manual, topic section "Service print module", paragraph "Adjusting the printhead voltage".

Printtest

64-xx ALX 92x DPM PEM PM 3000

General printtest, prints line by line the set printer type and the firmware version. Material settings (Material type, length, width) are considered.

Stop the printtest by pressing the Online button.

SERVICE DATA

> MODULE FW VERS.

System version

64-xx ALX 92x DPM PEM PM 3000

Shows the firmware version number.

System revision

64-xx ALX 92x DPM PEM PM 3000

Shows a consecutive revision number.

➠ Only for factory-internal use.

System date

64-xx ALX 92x DPM PEM PM 3000

Shows the date, at which the firmware was generated.

Bootloader

64-xx ALX 92x DPM PEM PM 3000

Shows the bootloader version number.

uMon

64-xx ALX 92x DPM PEM PM 3000

Shows the bootloader version number.

Feed driver

64-xx ALX 92x DPM PEM PM 3000

Applied PIC version on the output stage board driving the feed motor.

Foil driver

64-xx ALX 92x DPM PEM PM 3000

Applied PIC version on the output stage board driving the foil feed motor.

Head driver

64-xx ALX 92x DPM PEM PM 3000

Applied PIC version on the output stage board driving the head motor.

Peripheraldriver

64-xx PM 3000

➠ 64-xx: Only with mounted (optional) peripheral output stage board.

Applied PIC version on the output stage board driving the peripheral motor.

64-xx: Applied PIC version on the output stage board driving the deflection motor.

Rewinder

64-xx ALX 92x

➠ 64-xx Dispenser only.

Applied PIC version on the rewinder motor output stage board.

USI interface

64-xx ALX 92x DPM PEM PM 3000

➠ Only with USI mounted.

Applied PIC version on the USI.

Applicator int.

(Applicator Interface)

ALX 92x

➠ Only with mounted Applicator Interface.

Applied PIC version on the Applicator Interface.

> OPERATION DATA

Serv. operations

64-xx ALX 92x DPM PEM PM 3000

Shows the num+ber of service operations. The counter is increased by calling the parameter SERVICE FUNCTION > Service = yes. Maximum value: 4 billions.

Headnumber

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the number of printhead changes. The counter is increased by calling the parameter SERVICE FUNCTION > Cutter exchange = yes. Maximum value: 4 billions.

Roll number

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the number of exchanged print rollers. The counter is increased by calling the parameter SERVICE FUNCTION > Roller exchange > yes. Maximum value: 4 billions.

Cutter number

64-xx	PM 3000

➠ Only with mounted and activated cutter.

Shows the number of exchanged cutters. The counter is increased by calling the parameter SERVICE FUNCTION > Cutter exchange =yes. Maximum value: 4 billions.

Head run length

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the total "covered distance" of the printhead. The counter is reset with each calling of the parameter SERVICE FUNCTION > Cutter exchange = yes. Maximum value: 4 billions.

Roll run length

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the total "covered distance" of the print roller. The counter is reset with each calling of the parameter SERVICE FUNCTION > Roller exchange = yes. Maximum value: 4 billions.

Cuts on knife

64-xx	PM 3000

➠ Only with mounted and activated cutter.

Shows the number of cuts done by one knife. The counter is reset with each calling of the parameter SERVICE FUNCTION > Cutter exchange = yes. Maximum value: 4 billions.

Tot. mat. length

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the total "covered distance" of the feed roller. In comparison to the counter Roll run length, this counter is not reset after a roller exchange. Maximum value: 4 billions.

Tot. foil length

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the total "covered distance" of the ribbon roller.

Total cuts

64-xx	PM 3000

➠ Only with mounted and activated cutter.

Shows the number of cuts done by all knifes. In comparison to the counter Cuts on knife, this counter is not reset after a knife exchange. Maximum value: 4 billions.

Total head moves

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with mounted and activated cutter.

Shows the counter for every up and down movement of the printhead. Maximum value: 4 billions.

Head strobes

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the counted head strobes, which are a measure for the service life of the printhead. A strobe is counted for each line in which at least one dot ist printed. Maximum value: 4 billions.

Head temperature

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the current printhead temperature in °C.

Foil diameter

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the calculated foil diameter: A measurement routine calculates the actual ribbon roll diameter with an exactness of 7.5%.

The parameter SYSTEM PARAMETER > Foil end warning can be used to set a critical foil roll diameter. If the foil roll diameter equals this value, a message appears on the printer display.

❍ See parameter Foil end warning / on page 71.
64-xx, DPM / PEM, ALX 92x:
At the (optional) USI is set a signal indicating the near foil end (additionally to the display warning).

Dispensing cycl.

(Dispensing cycles)

64-xx	ALX 92x	DPM

➠ 64-xx/AP 5.4: Dispenser version only.

Shows the number of dispensed labels.

Operation time

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the elapsed time since the last switch-on of the machine.

> POWERSUPPLYDATA

Type

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the type of power supply, e.g. „Blue Mountain“.

PS temperature

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the current power supply temperature in °C. If for any reason the function is not supported, „??? °C“ is displayed.

Version

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Availability depends on the type of power supply.

Shows the power supply version.

Serial number

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Availability depends on the type of power supply.

Shows the power supply serial number.

Standby+On time

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Availability depends on the type of power supply.

Shows the power supply operation time including the standby time.

Standby time is the duration of time, during which the printer was switched on with the power switch, but *not* with the remote on/off switch on the operation panel.

➠ Doesn´t count for 64-xx. At the 64-xx, the same time as under SERVICE DATA > POWERSUPPLY DATA > On time

➠ The operation time tells nothing about the printing time of the printer.

On time

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Availability depends on the type of power supply.

Shows the operation time of the printer. This does *not comprise* the standby time (see SERVICE DATA > POWERSUPPLY DATA > Standby+On time).

➠ The operation time tells nothing about the printing time of the printer.

> CPU BOARD DATA

CPU identifier

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the designation of the applied processor.

PCB revision

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the layout revision and part number of the CPU board.

FPGA version

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the FPGA version.

MAC address

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the MAC Address, an unchanging board address, which is programmed by the board manufacturer.

Serial number

64-xx	ALX 92x	DPM	PEM	PM 3000

Serial number: Is programmed by the board manufacturer.

Production date

64-xx	ALX 92x	DPM	PEM	PM 3000

Production date: Is programmed by the board manufacturer.

PCB part number

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the part number of the board without components.

Board part numb.

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the part number of the board with components.

Manufacturer

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter appears only in production mode.

Shows the board manufacturer.

Work place

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter appears only in production mode.

Shows the printer work place.

Company name

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Parameter appears only in production mode.

Shows the company name.

> DISPLAY DATA

Display version

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the *version number* of the operation panel.

Display SerialNr

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the *serial number* of the operation panel.

Remote disp. vers.

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if remote operation panel is connected.

Shows the *version number* of the remote operation panel.

Remote disp.

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only if remote operation panel is connected.

Shows the *serial number* of the remote operation panel.

> MEMORY DATA

Ram memory size

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the available RAM memory size.

Flash mem size

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the available Flash memory size. The abbreviation which is displayed behind the memory size indicates the manufacturer of the applied Flash-RAM:

Abbreviation	Manufacturer
MX	Macronix
AMD	AMD
FUJ	Fuji

[15] The displayed abbreviations indicate the manufacturer of the Flash-RAM.

CompactFlash

64-xx	ALX 92x	DPM	PEM	PM 3000

➠ Only with plugged-in CF card.

Shows the memory size of the CF card.

Space for Jobs

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the memory size, which is available for print jobs.

Max. Labellength

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the maximum printable label length, which results from the memory allocation.

Default values

64-xx	ALX 92x	DPM	PEM	PM 3000

Shows the setting of parameter SPECIAL FUNCTION > Default values.